

E

4X4 TORUS

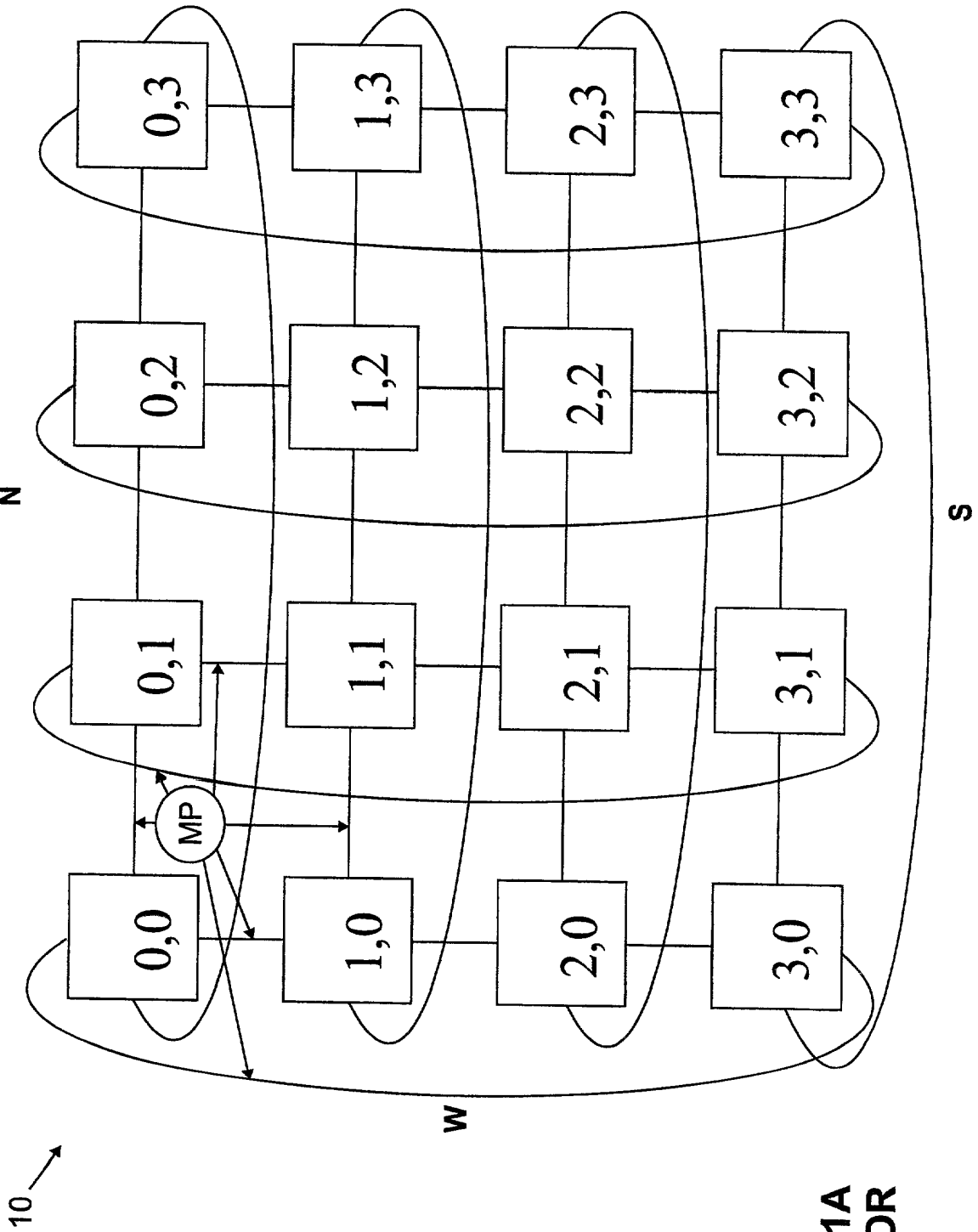


FIG. 1A
(PRIOR
ART)

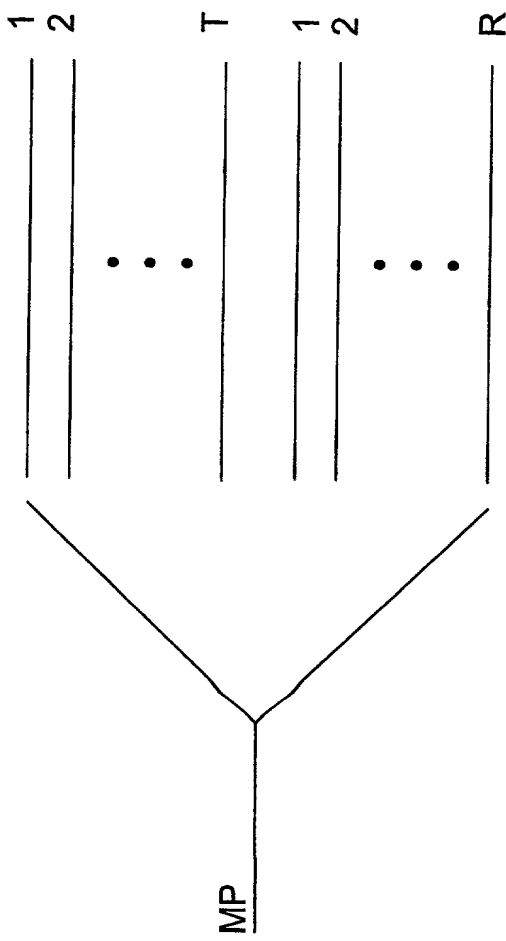


FIG. 1B
(PRIOR ART)

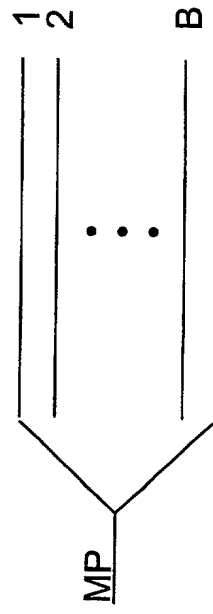


FIG. 1C
(PRIOR ART)

4X4 DIAGONAL FOLDED MESH

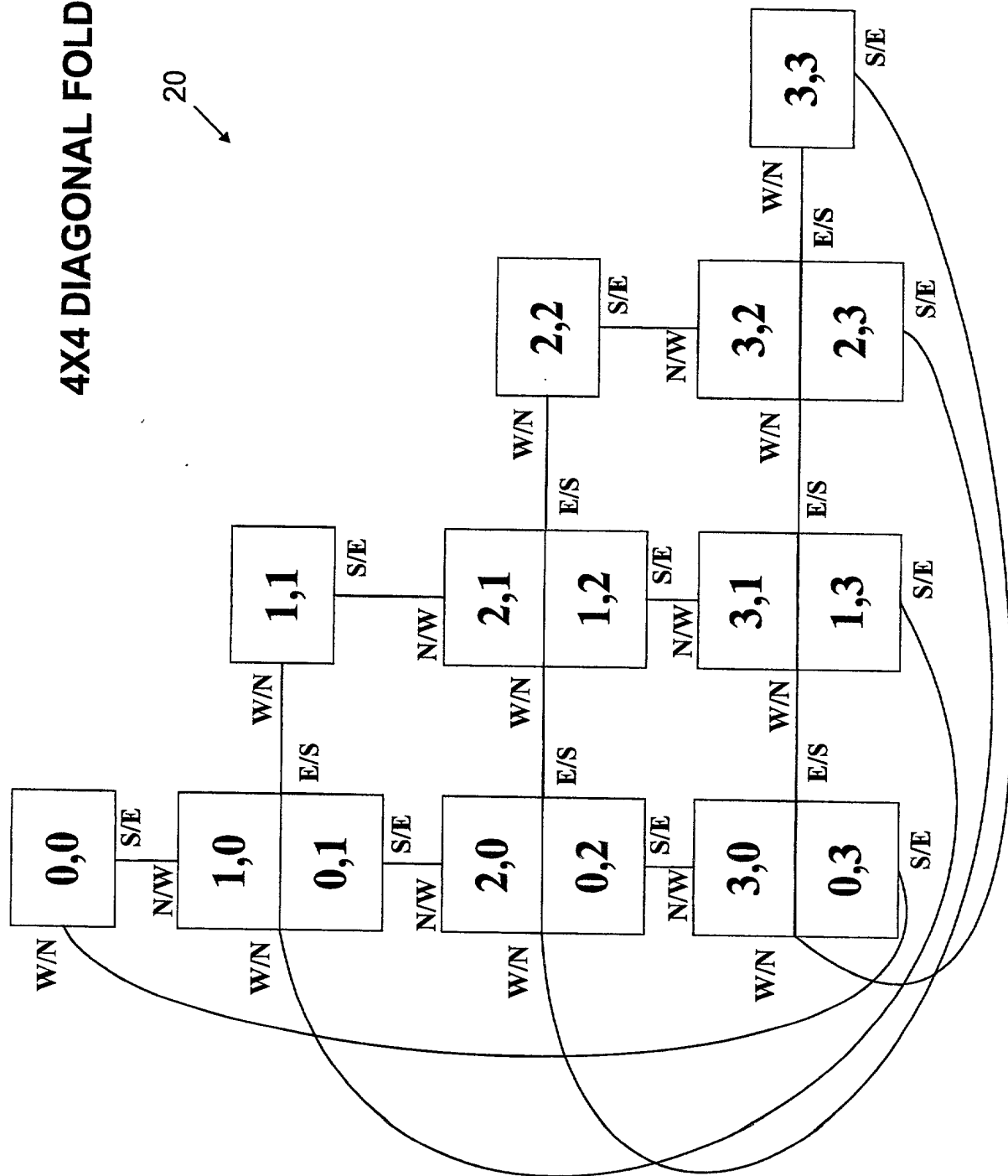


FIG. 2
(PRIOR
ART)

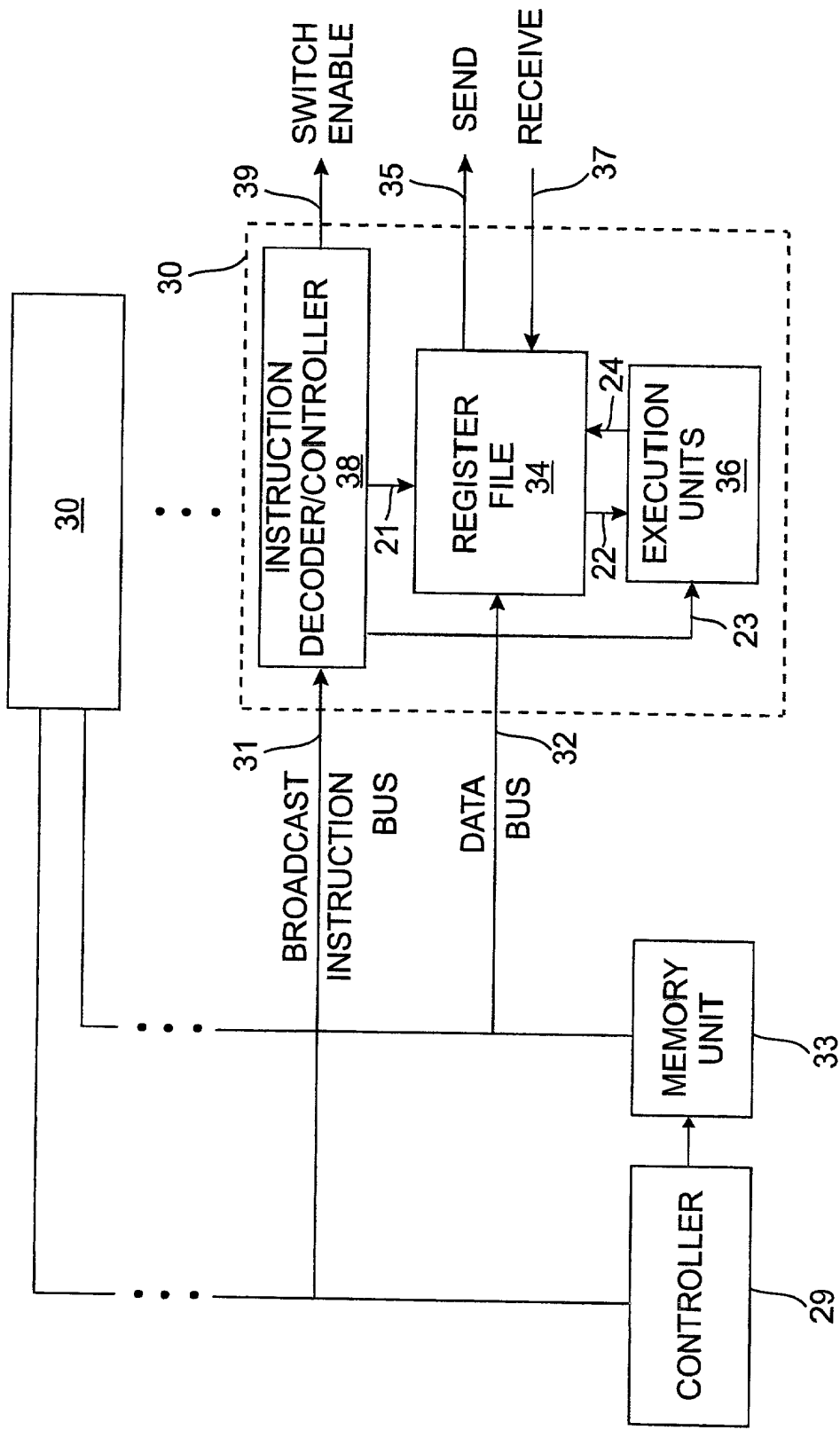


FIG. 3A

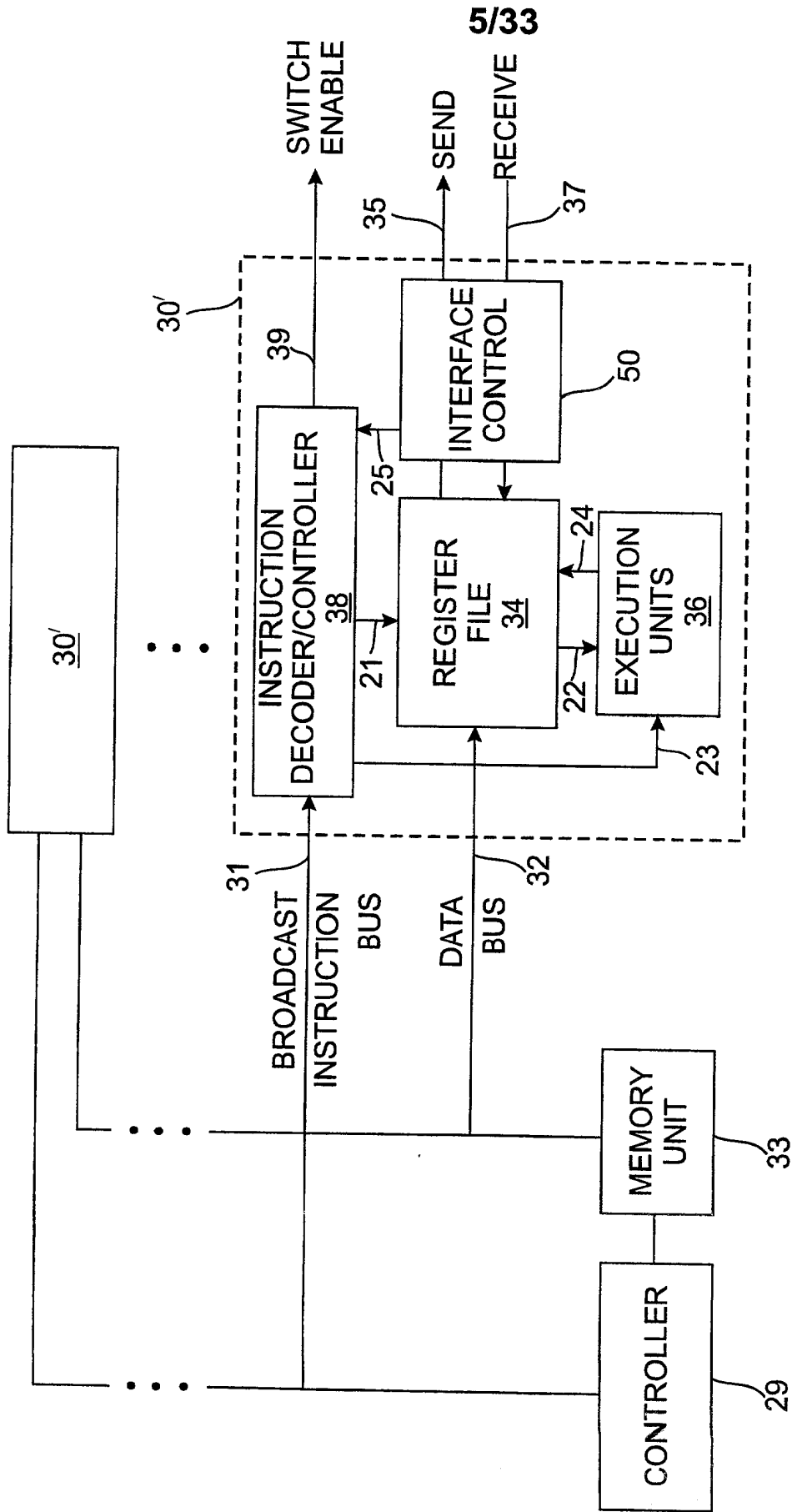


FIG. 3B



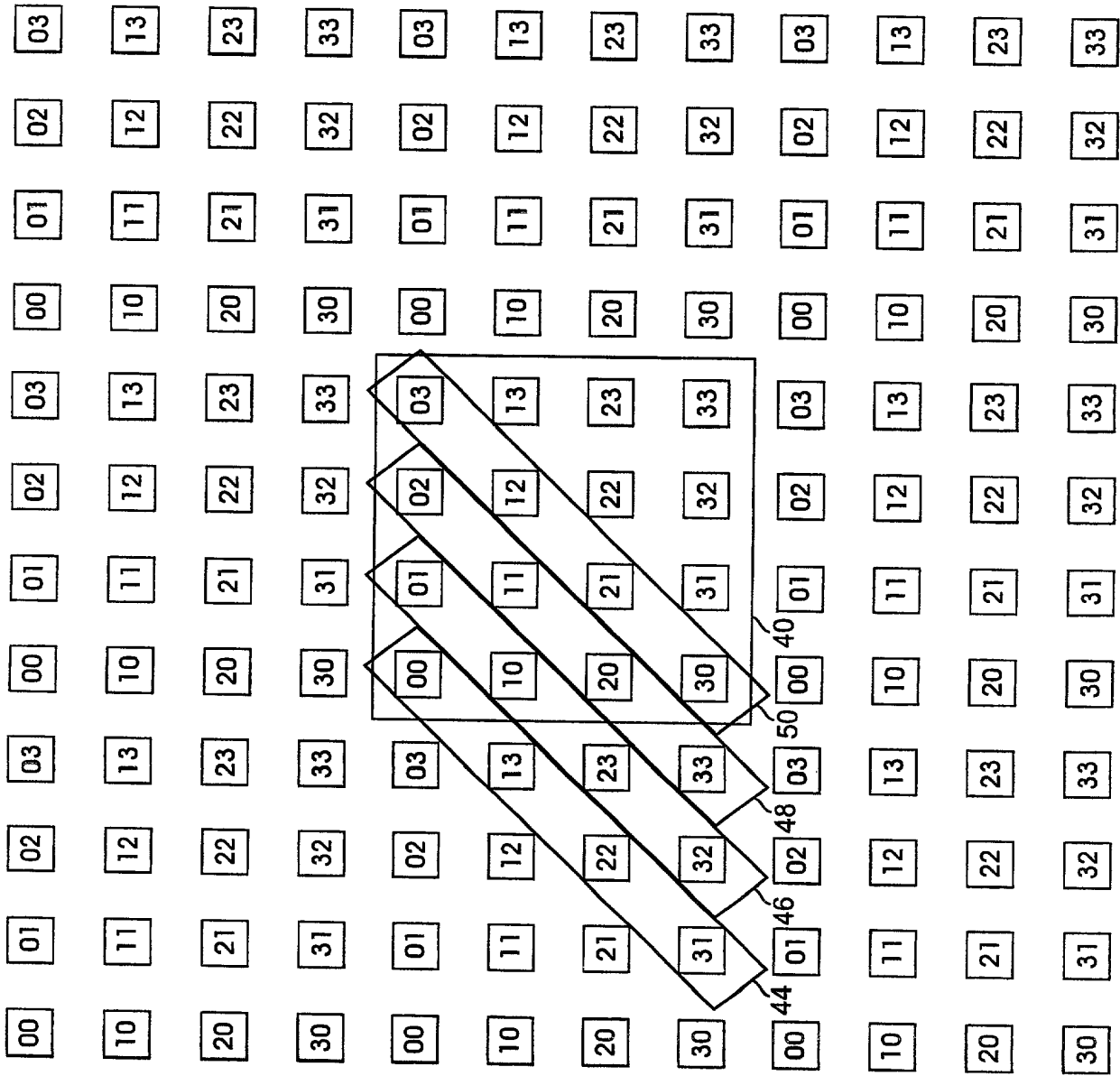


FIG. 5A

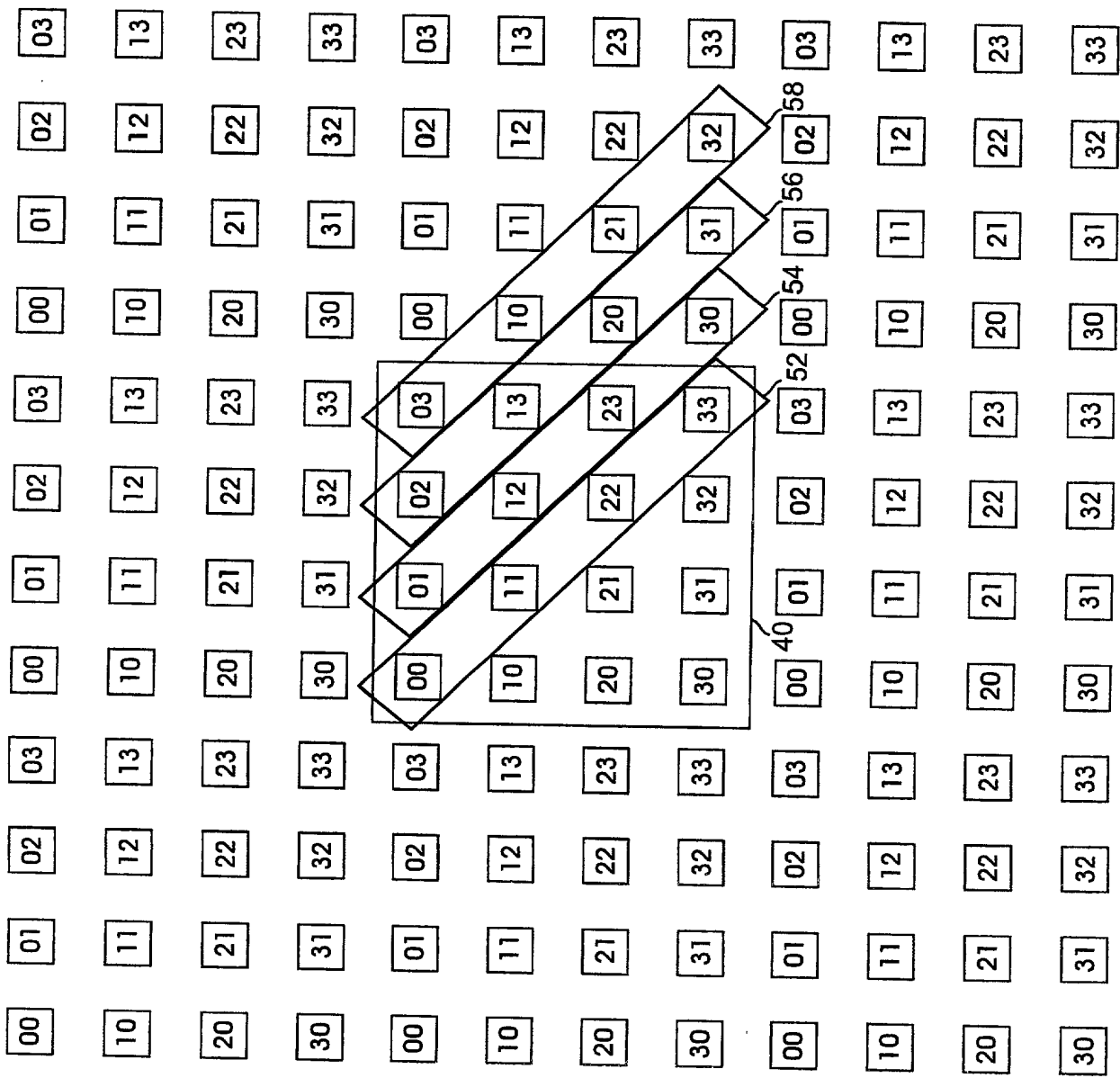


FIG. 5B

FIG. 5C is a schematic diagram of a 4x4 grid of 16 cells, each containing a 2-digit hexadecimal value. The grid is divided into four 2x2 quadrants by a vertical line 40 and a horizontal line 60. The top-left quadrant is labeled 62, the top-right 64, the bottom-left 66, and the bottom-right 40. The values in the cells are as follows:

00	01	02	03	00	01	02	03	03	02	01	00	03	02	01	00	03
10	11	12	13	10	11	12	13	13	12	11	10	13	12	11	10	13
20	21	22	23	20	21	22	23	23	22	21	20	23	22	21	20	23
30	31	32	33	30	31	32	33	33	32	31	30	33	32	31	30	33
00	01	02	03	00	01	02	03	03	02	01	00	03	02	01	00	03
10	11	12	13	10	11	12	13	13	12	11	10	13	12	11	10	13
20	21	22	23	20	21	22	23	23	22	21	20	23	22	21	20	23
30	31	32	33	30	31	32	33	33	32	31	30	33	32	31	30	33
00	01	02	03	00	01	02	03	03	02	01	00	03	02	01	00	03
10	11	12	13	10	11	12	13	13	12	11	10	13	12	11	10	13
20	21	22	23	20	21	22	23	23	22	21	20	23	22	21	20	23
30	31	32	33	30	31	32	33	33	32	31	30	33	32	31	30	33

FIG. 5C

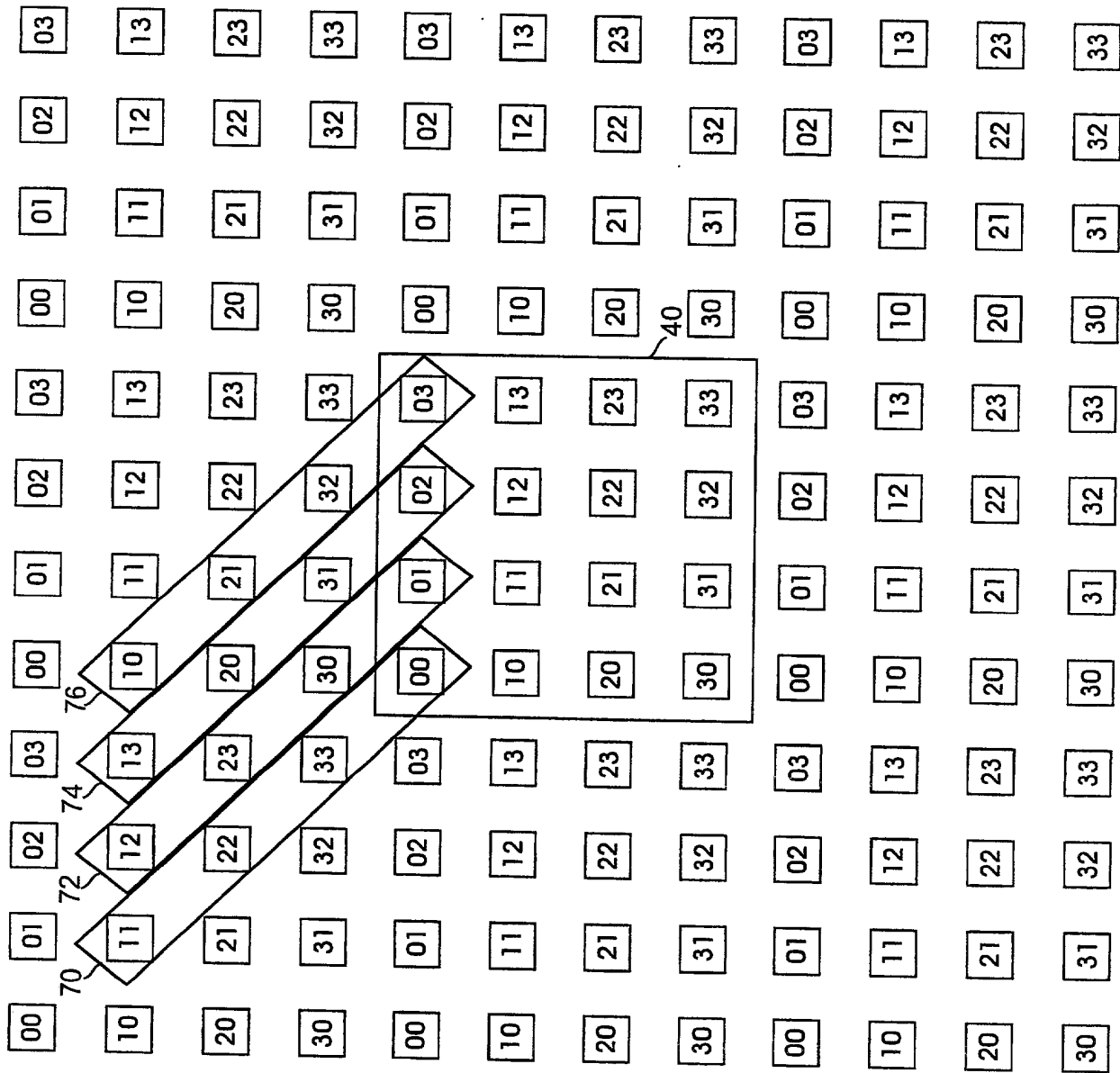


FIG. 5D

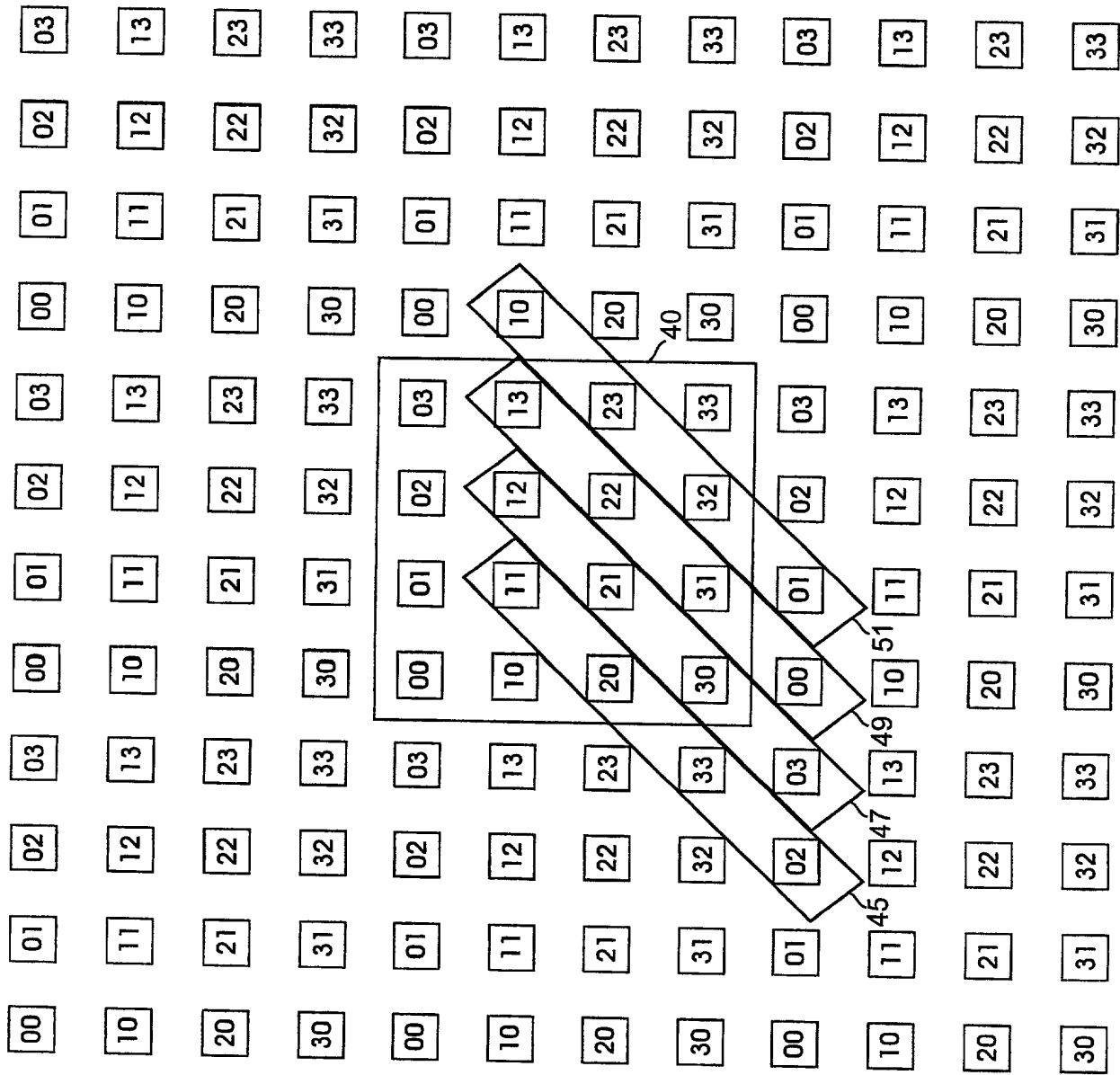


FIG. 5E

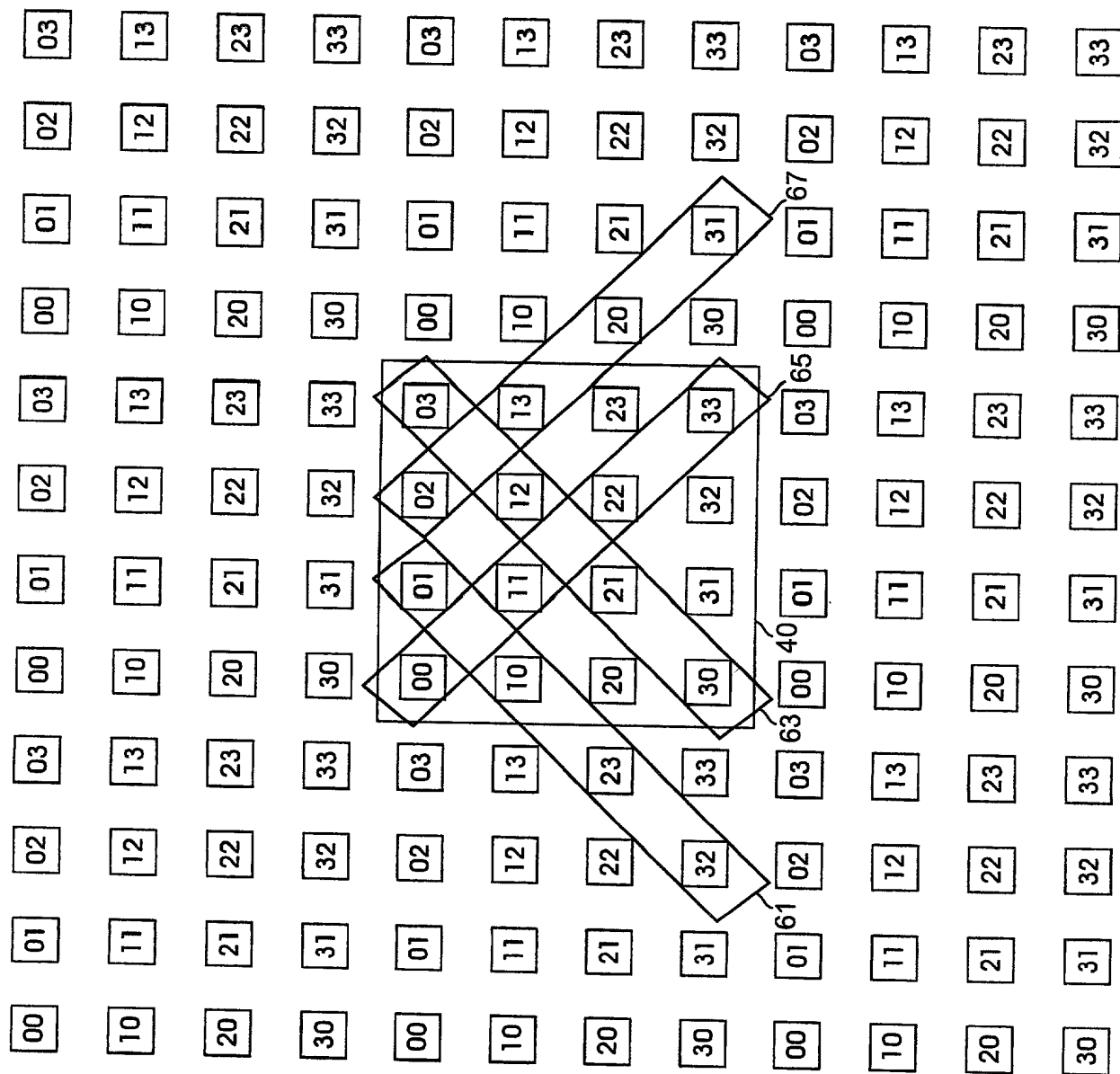
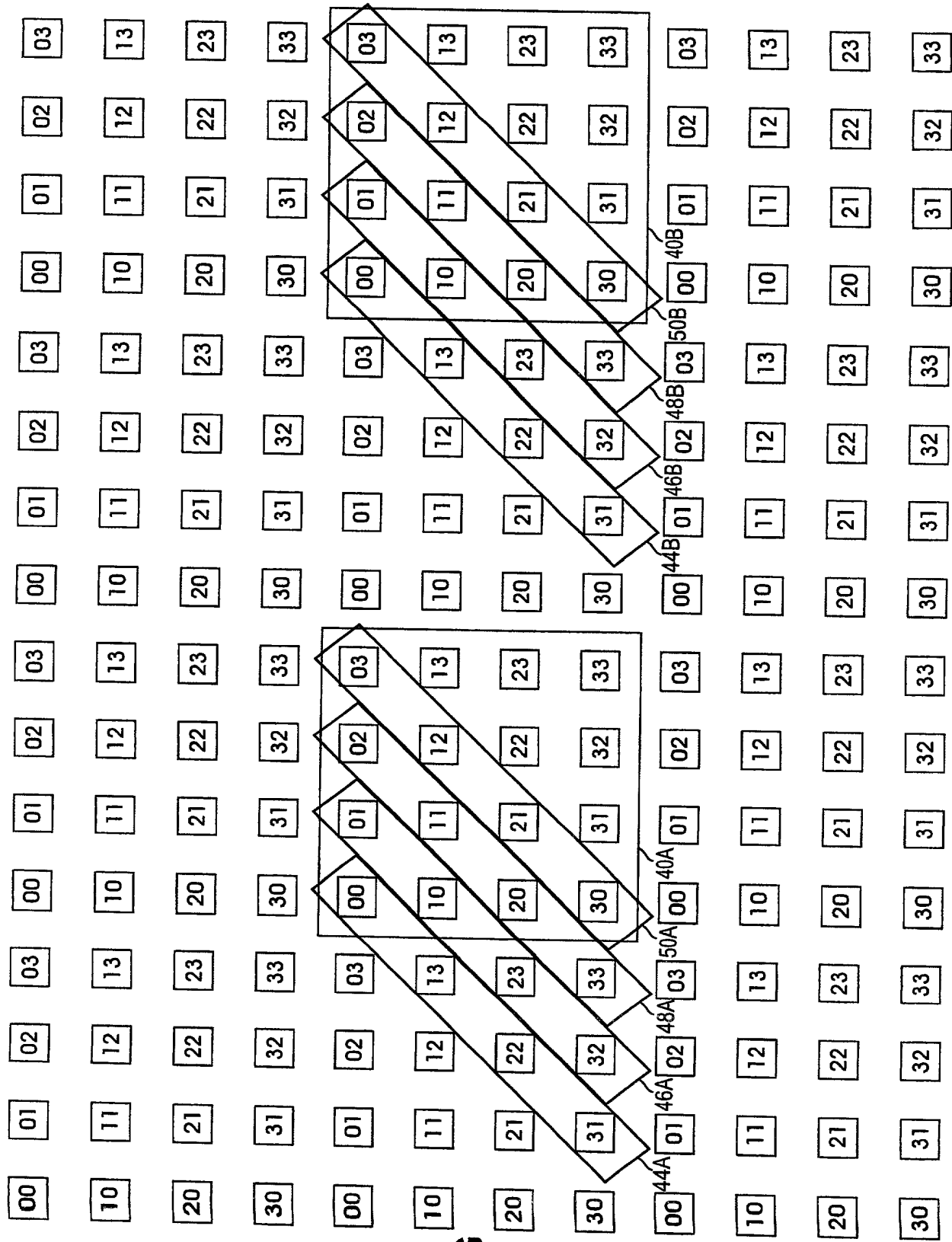


FIG. 5F

FIG. 5G is a schematic diagram of a 4x4 grid of 16 cells, each containing a 2-digit hexadecimal value. The grid is divided into four 2x2 quadrants by a horizontal and vertical line. The top-left quadrant contains values 00, 01, 02, 03 in the first row and 10, 11, 12, 13 in the second row. The top-right quadrant contains values 20, 21, 22, 23 in the first row and 30, 31, 32, 33 in the second row. The bottom-left quadrant contains values 40, 41, 42, 43 in the first row and 50, 51, 52, 53 in the second row. The bottom-right quadrant contains values 60, 61, 62, 63 in the first row and 70, 71, 72, 73 in the second row. The grid is labeled 13/33 at the top center.

13/33

FIG. 5G



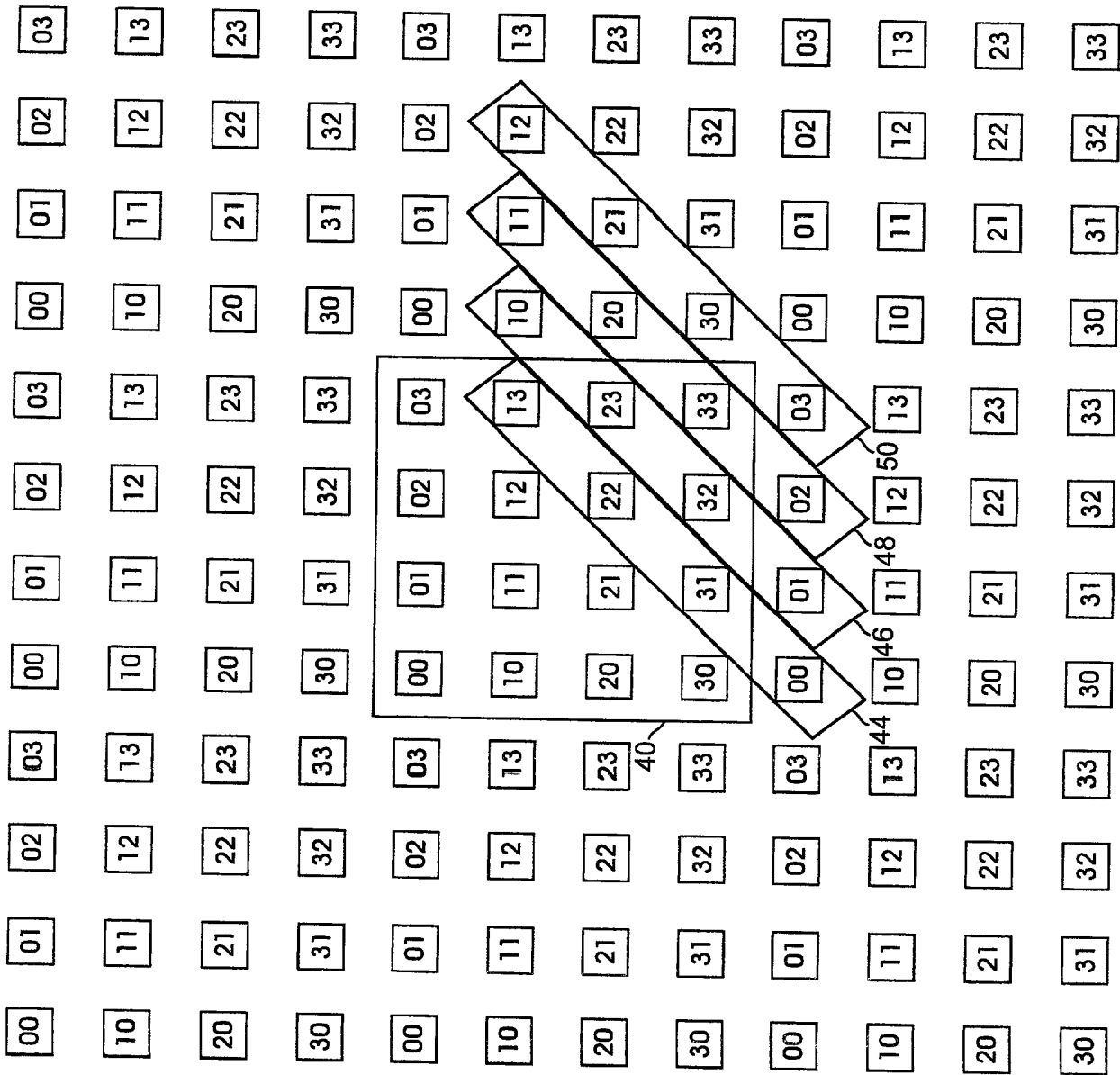


FIG. 6

00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22
00	01	02	00	01	02	00	01	02
10	11	12	10	11	12	10	11	12
20	21	22	20	21	22	20	21	22

FIG. 7

00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24
00	01	02	03	04	00	01	02	03	04	00	01	02	03	04
10	11	12	13	14	10	11	12	13	14	10	11	12	13	14
20	21	22	23	24	20	21	22	23	24	20	21	22	23	24

FIG. 8



FIG. 9

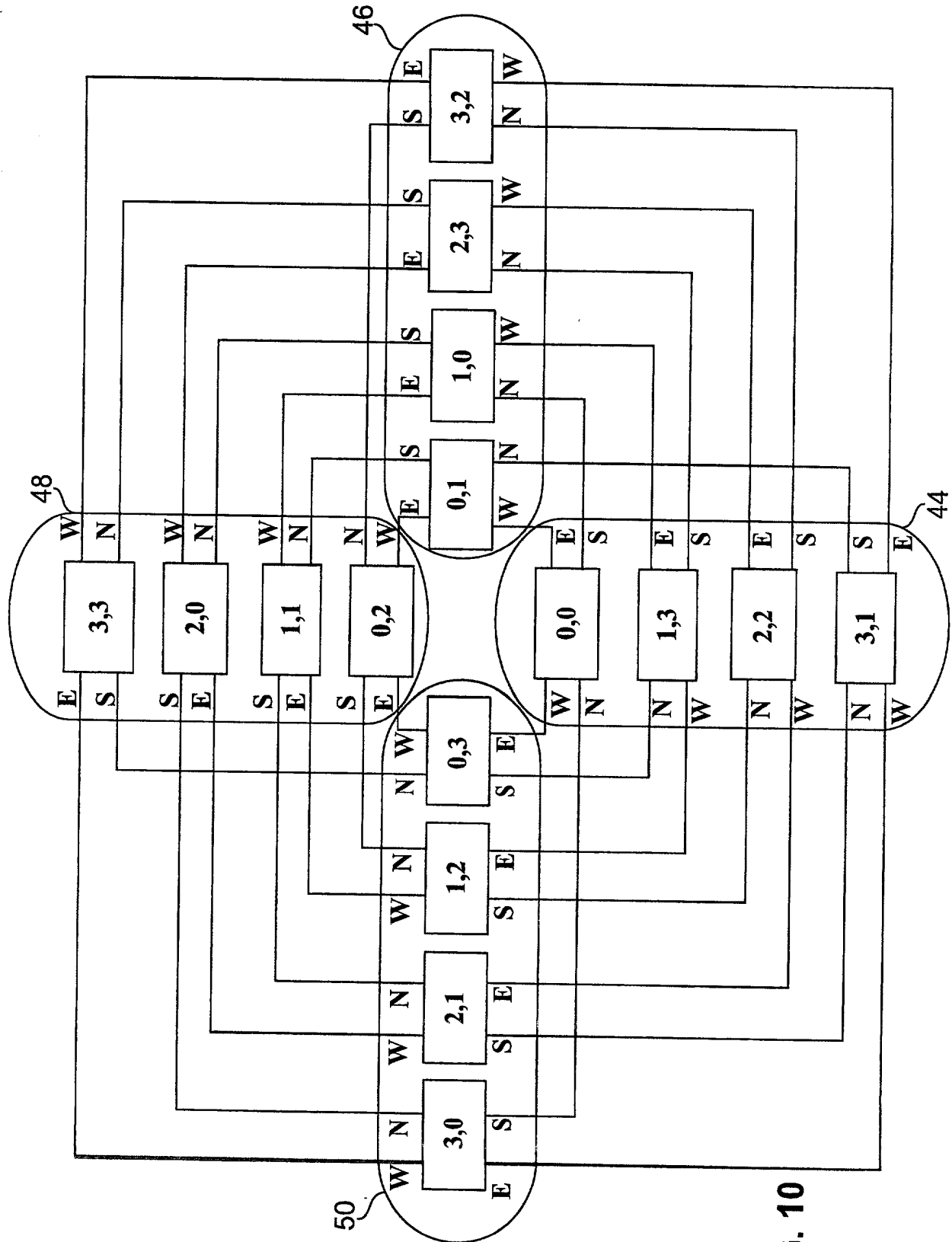
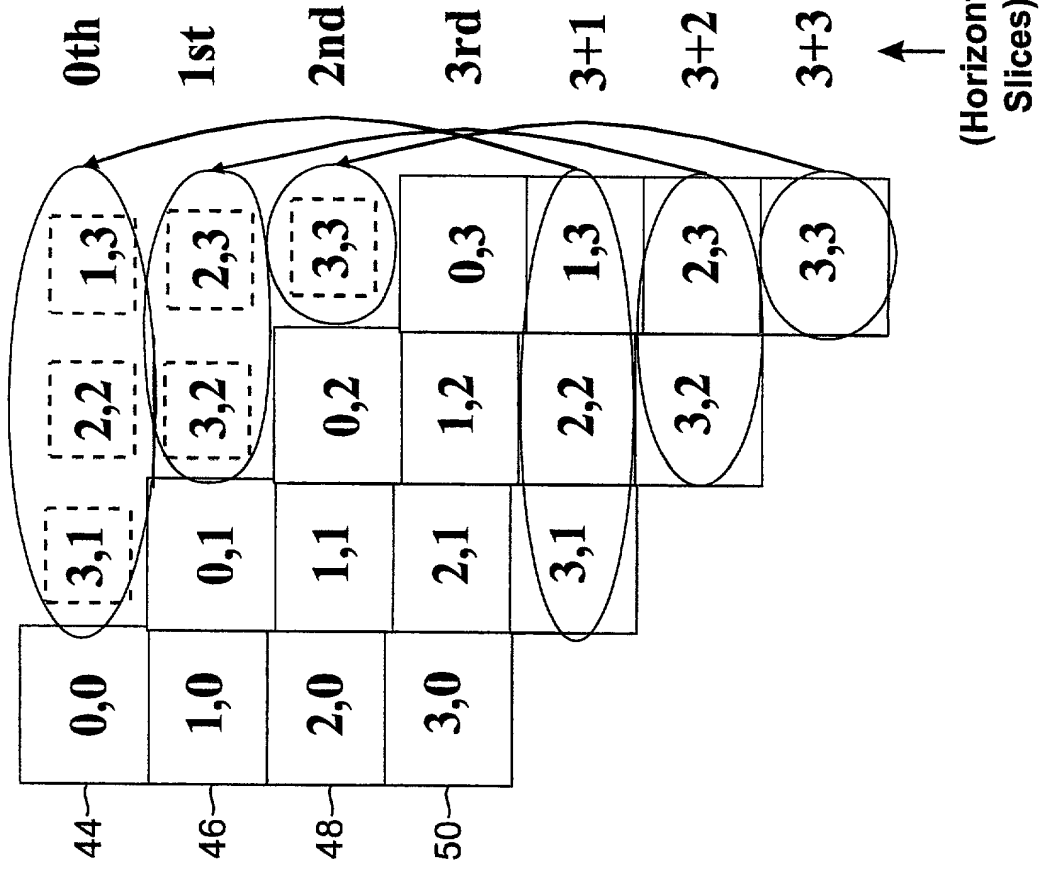
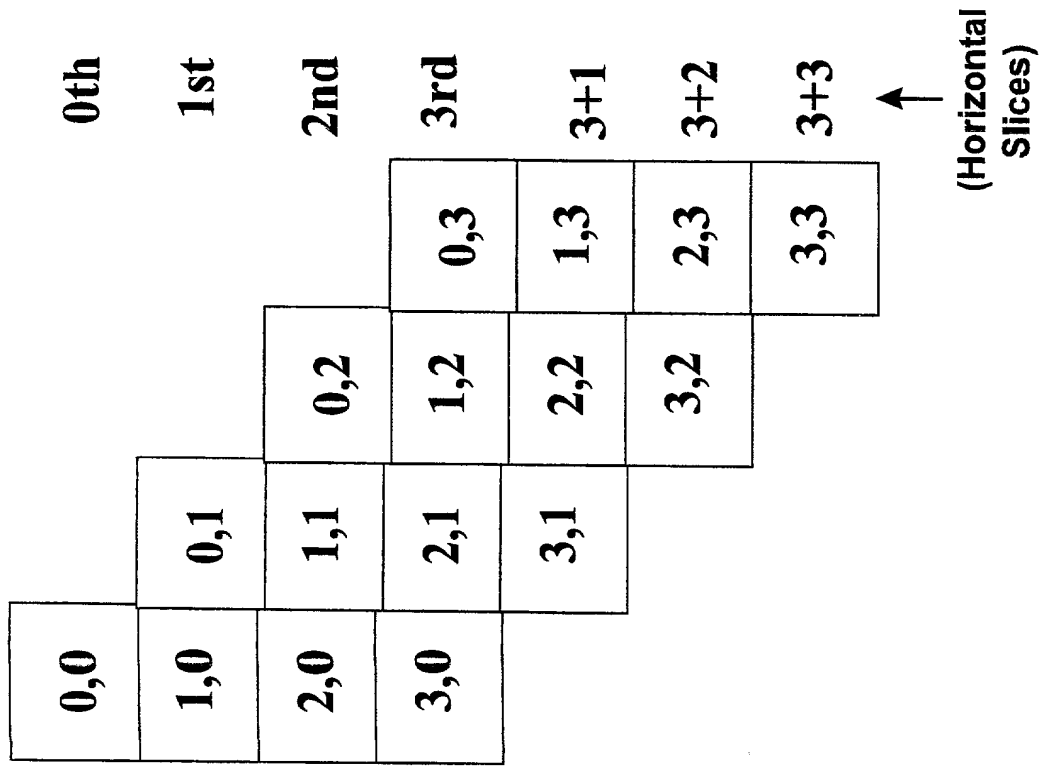


FIG. 10



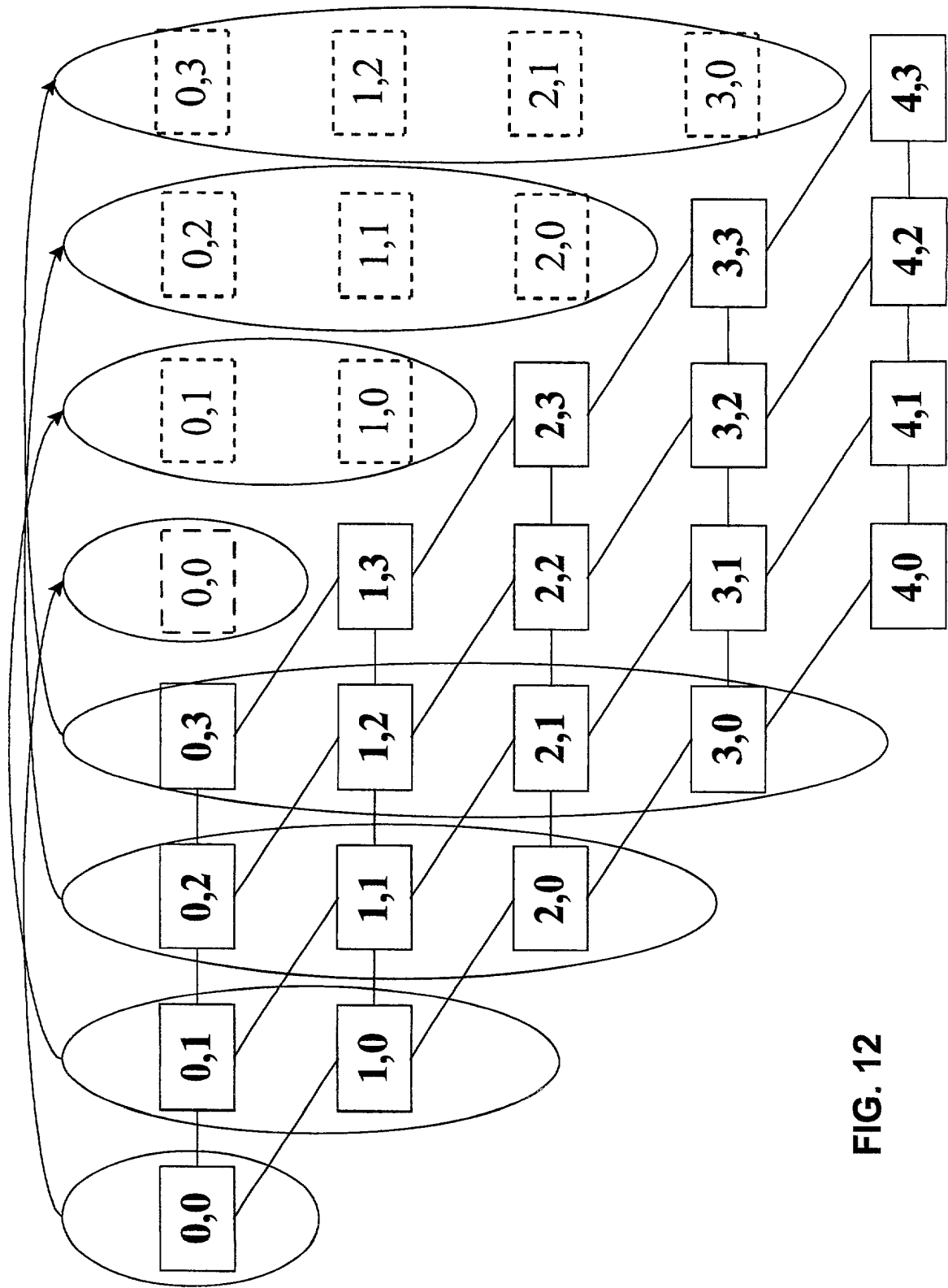


FIG. 12

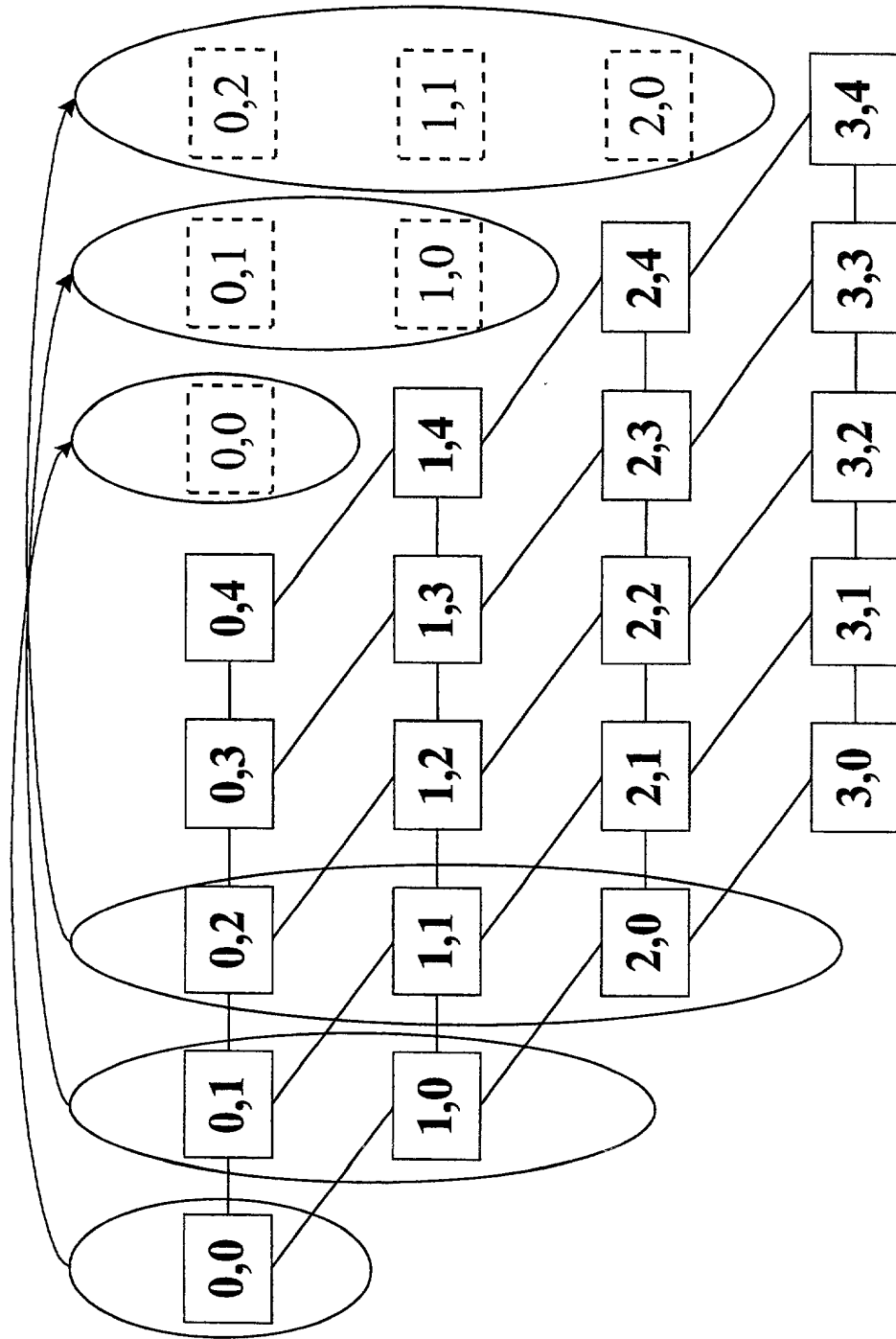


FIG. 13

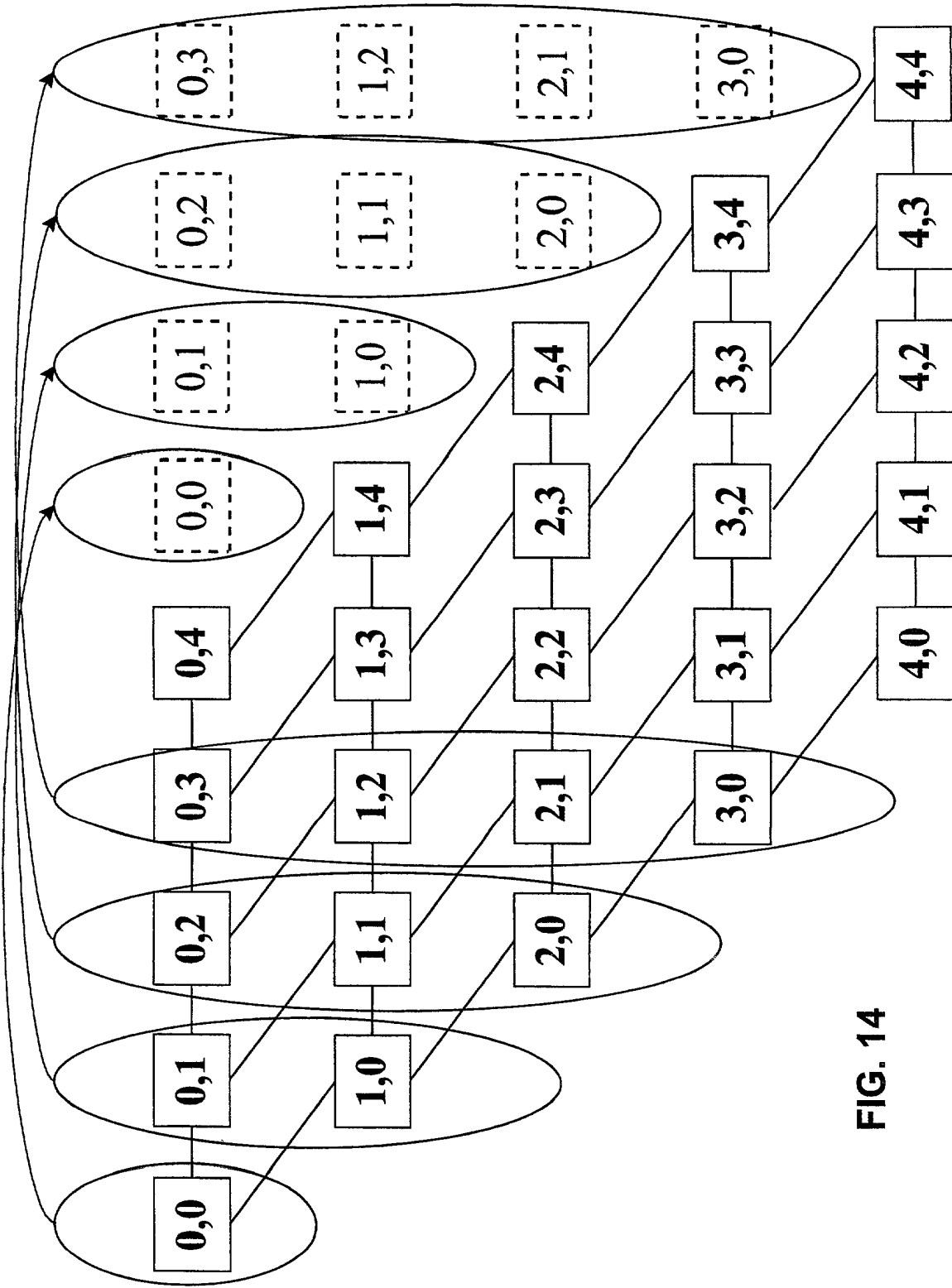
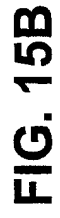
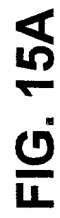
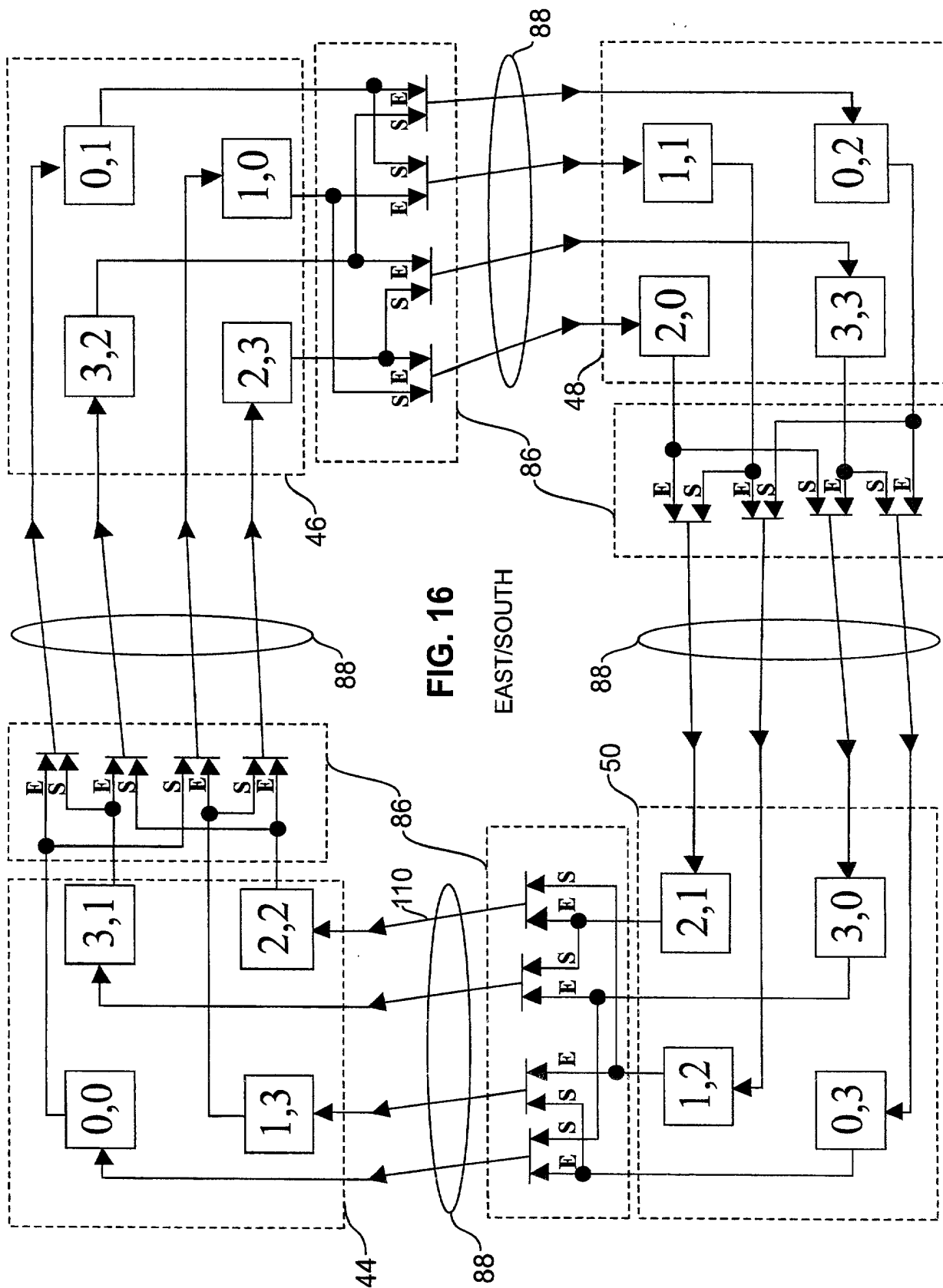
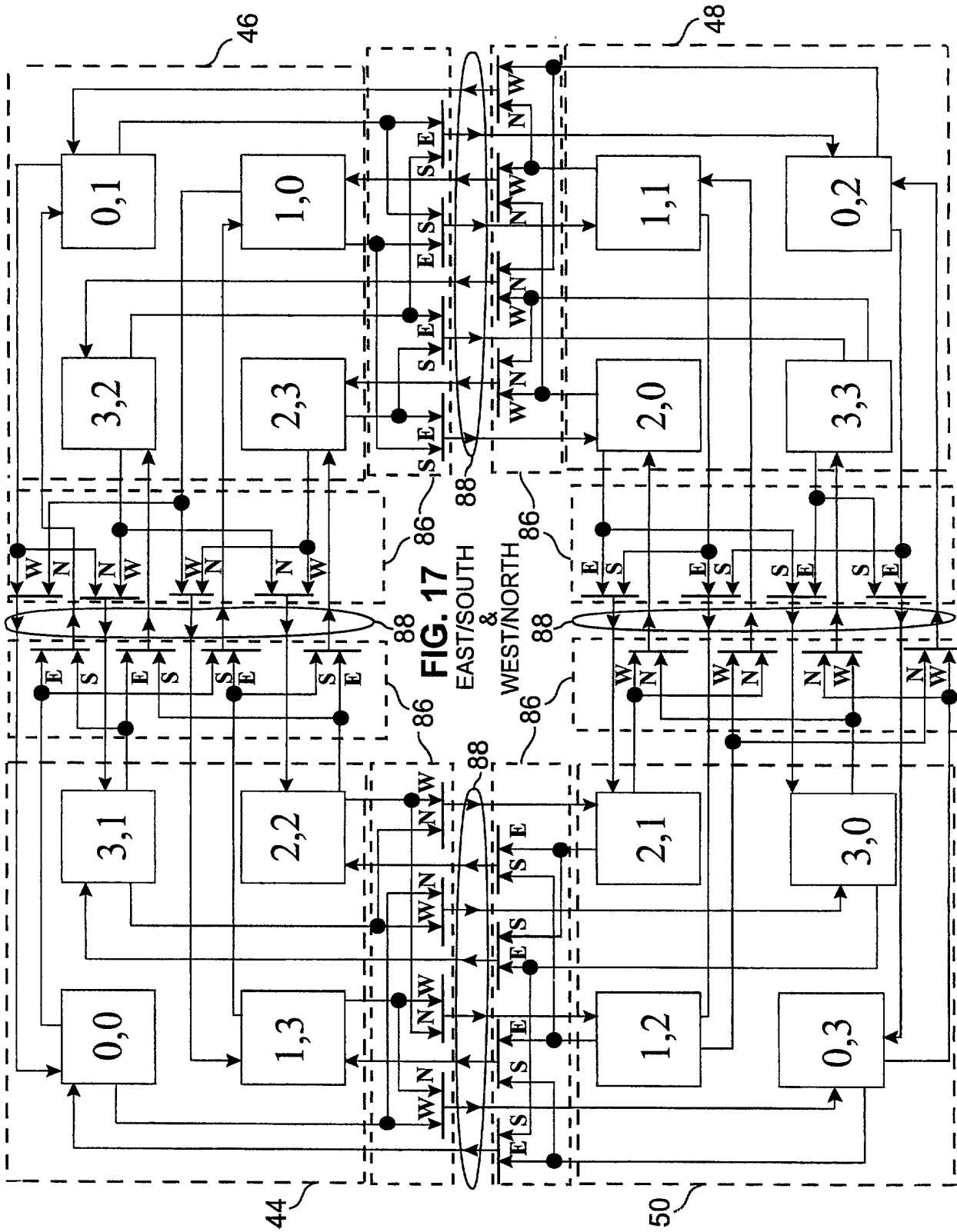
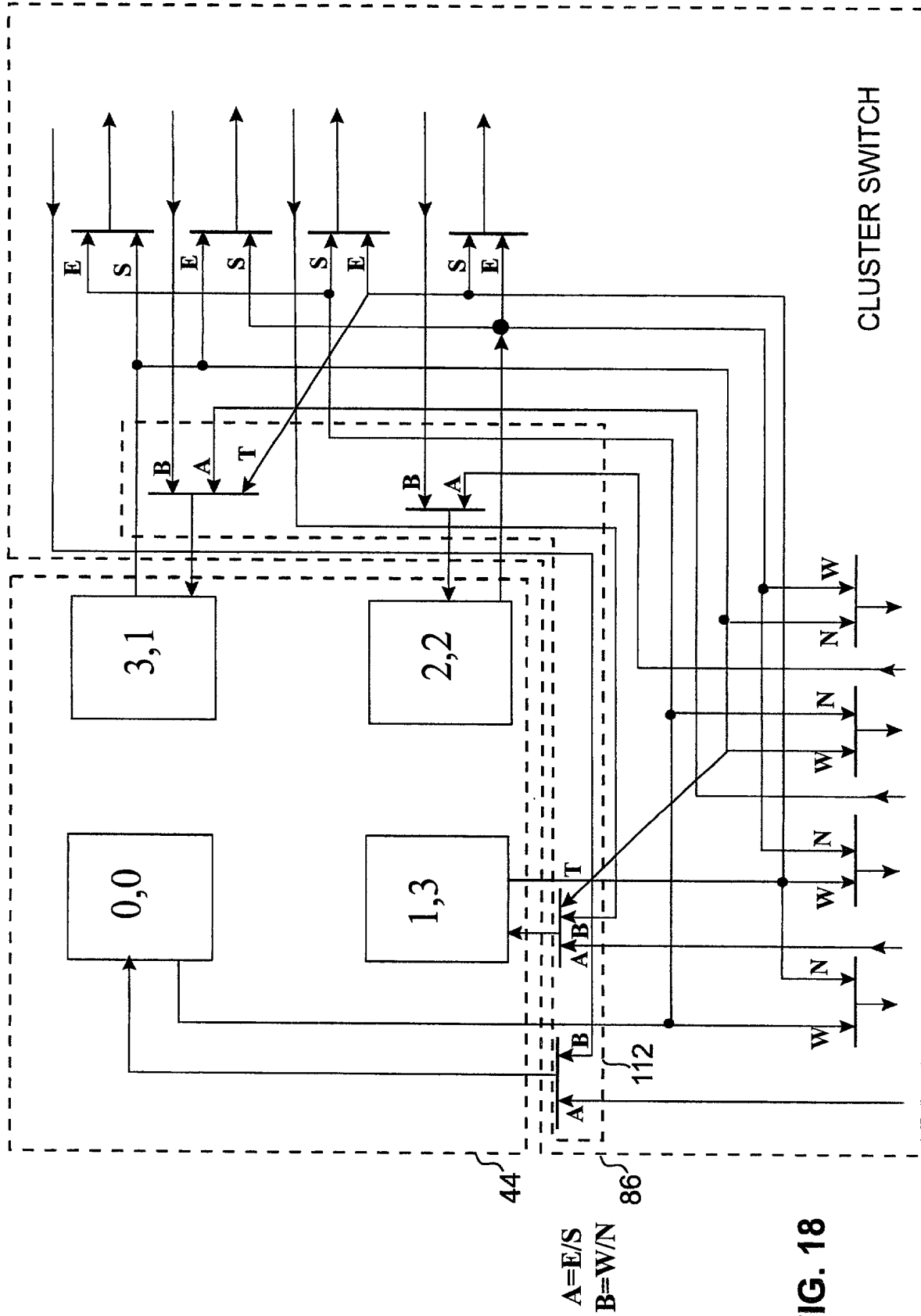


FIG. 14



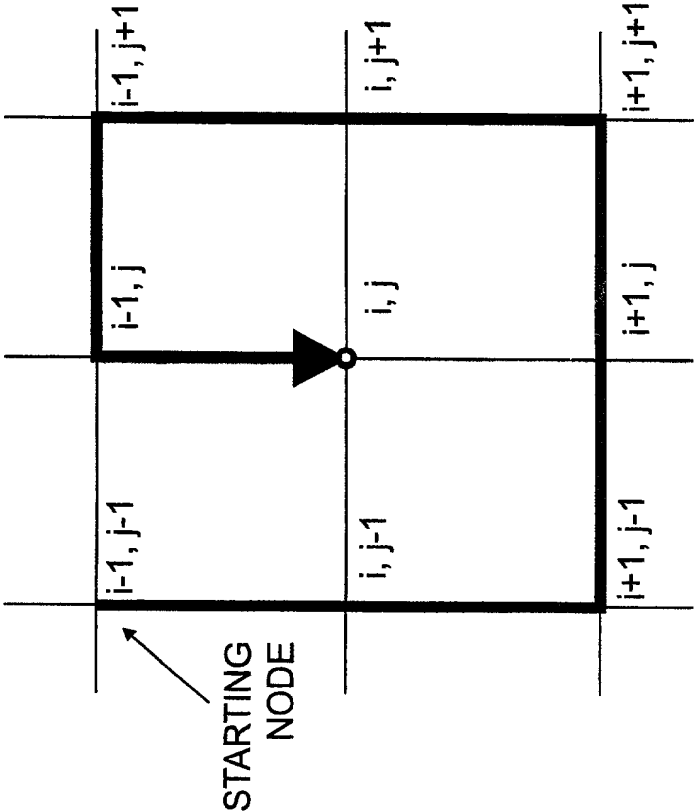






W0,0 W0,1 W0,2
W1,0 W1,1 W1,2
W2,0 W2,1 W2,2

CONVOLUTION WINDOW
FIG. 19A



CONVOLUTION PATH FOR NODE i, j
FIG. 19B

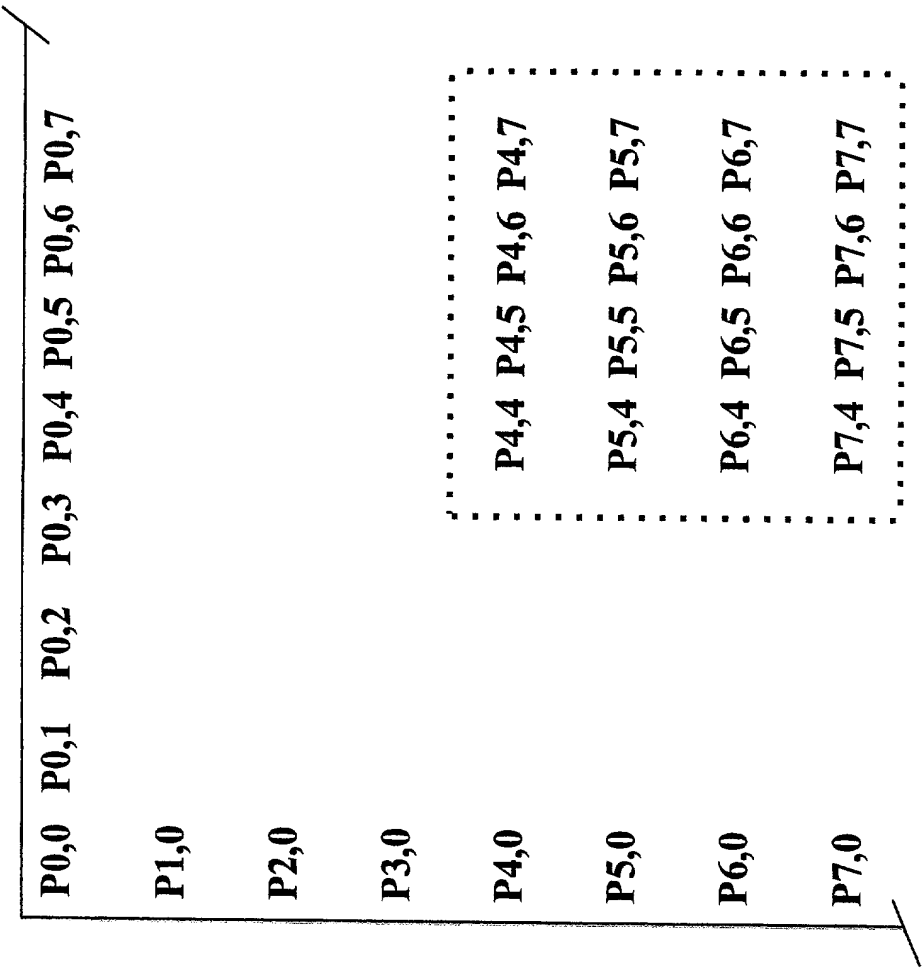


FIG. 19C

0,0	0,1	0,2	0,3
P4,4	P4,5	P4,6	P4,7
1,0	1,1	1,2	1,3
P5,4	P5,5	P5,6	P5,7
2,0	2,1	2,2	2,3
P6,4	P6,5	P6,6	P6,7
3,0	3,1	3,2	3,3
P7,4	P7,5	P7,6	P7,7

FIG. 19D

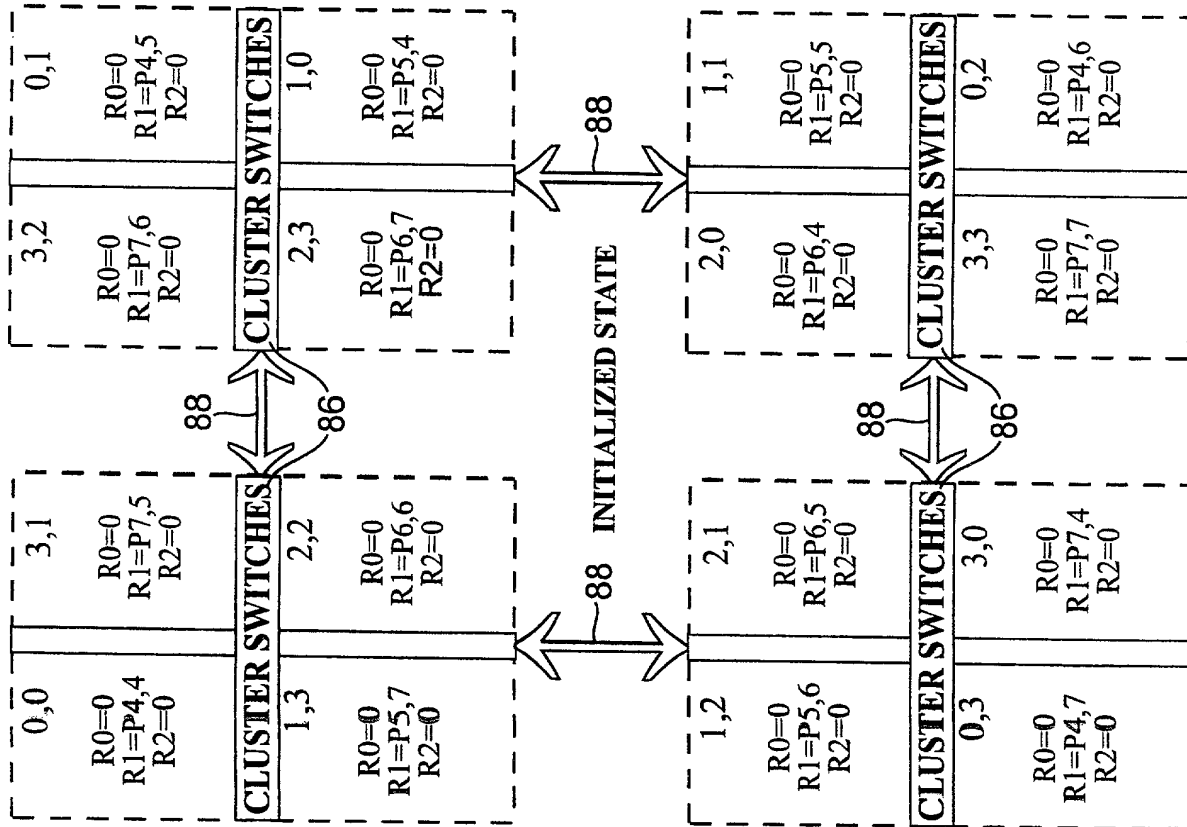


FIG. 20A

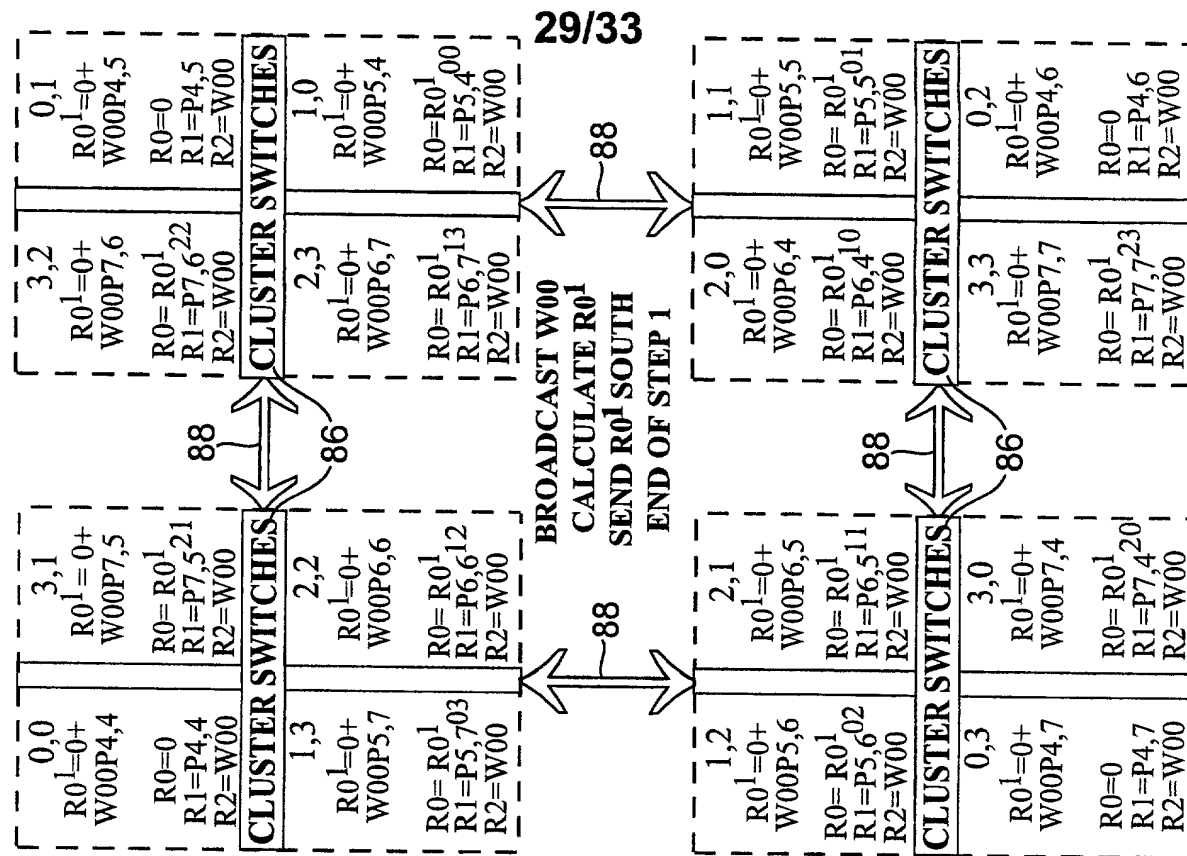
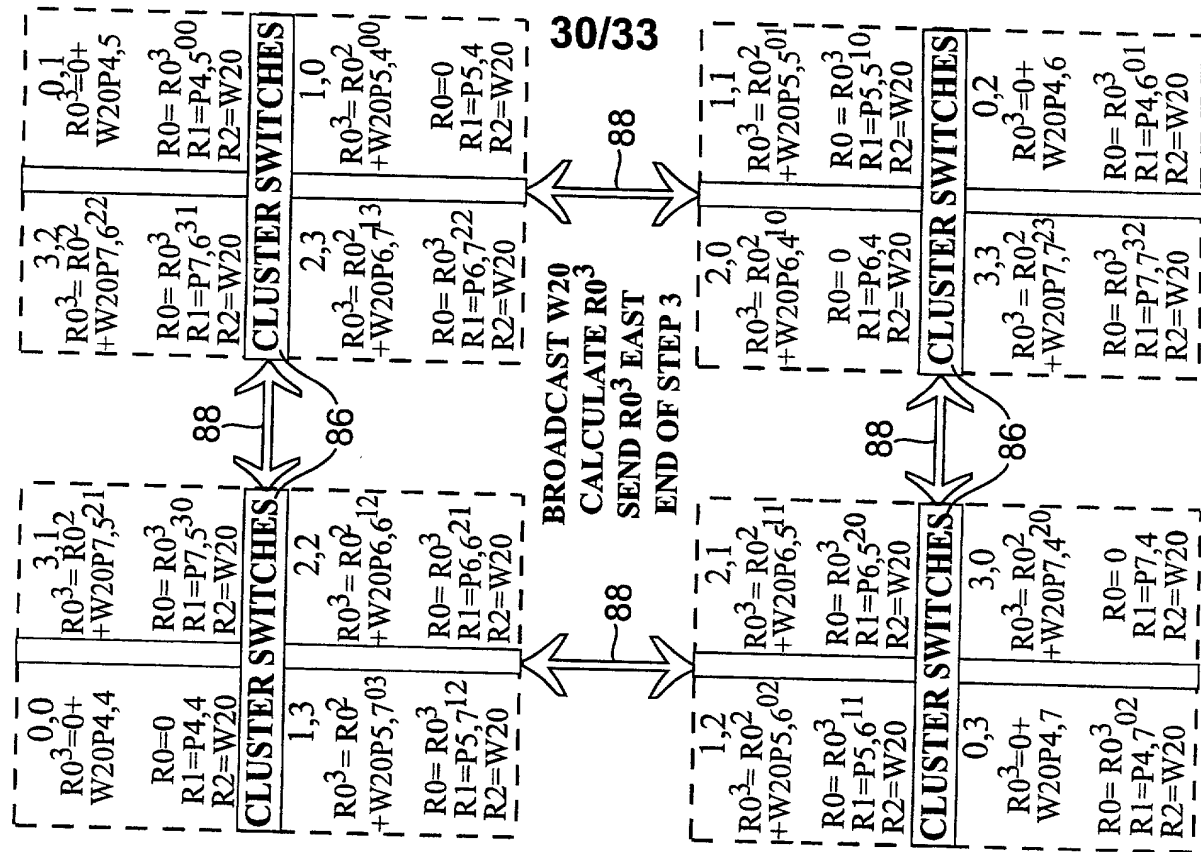
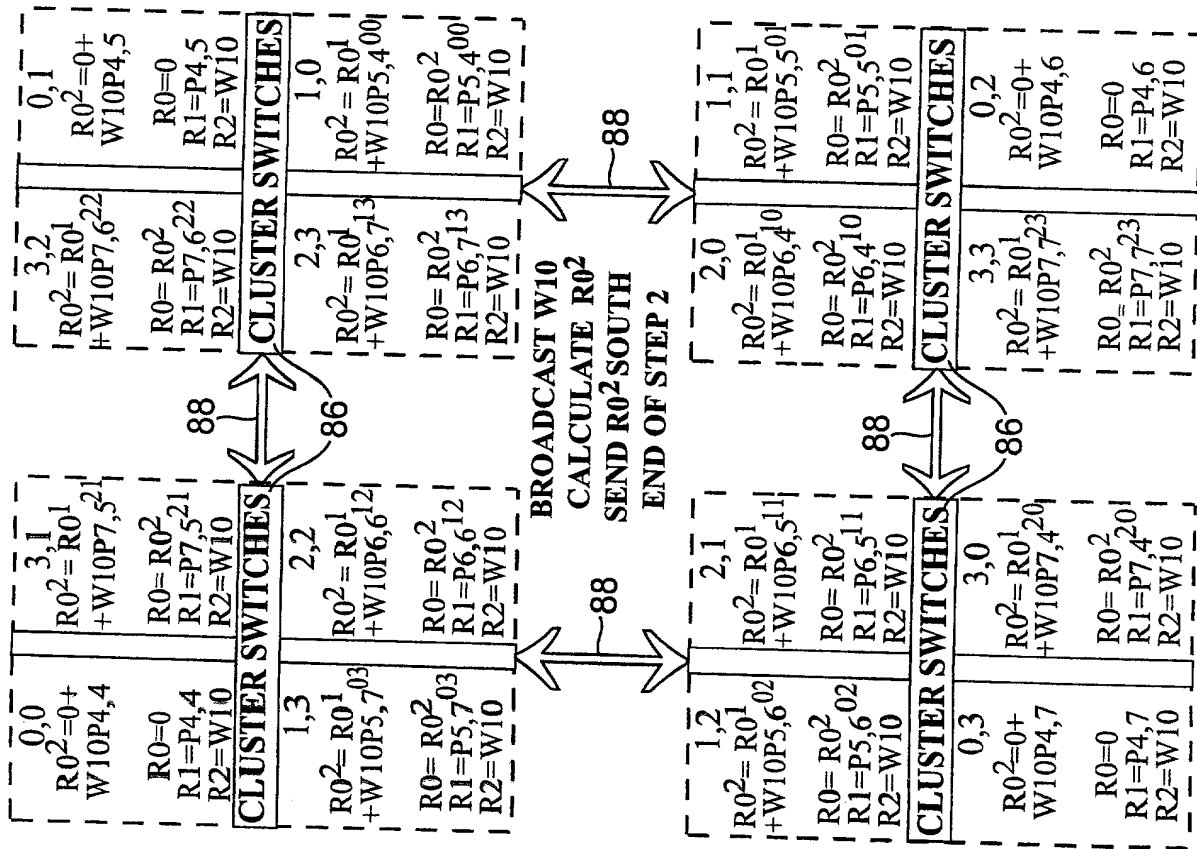


FIG. 20B



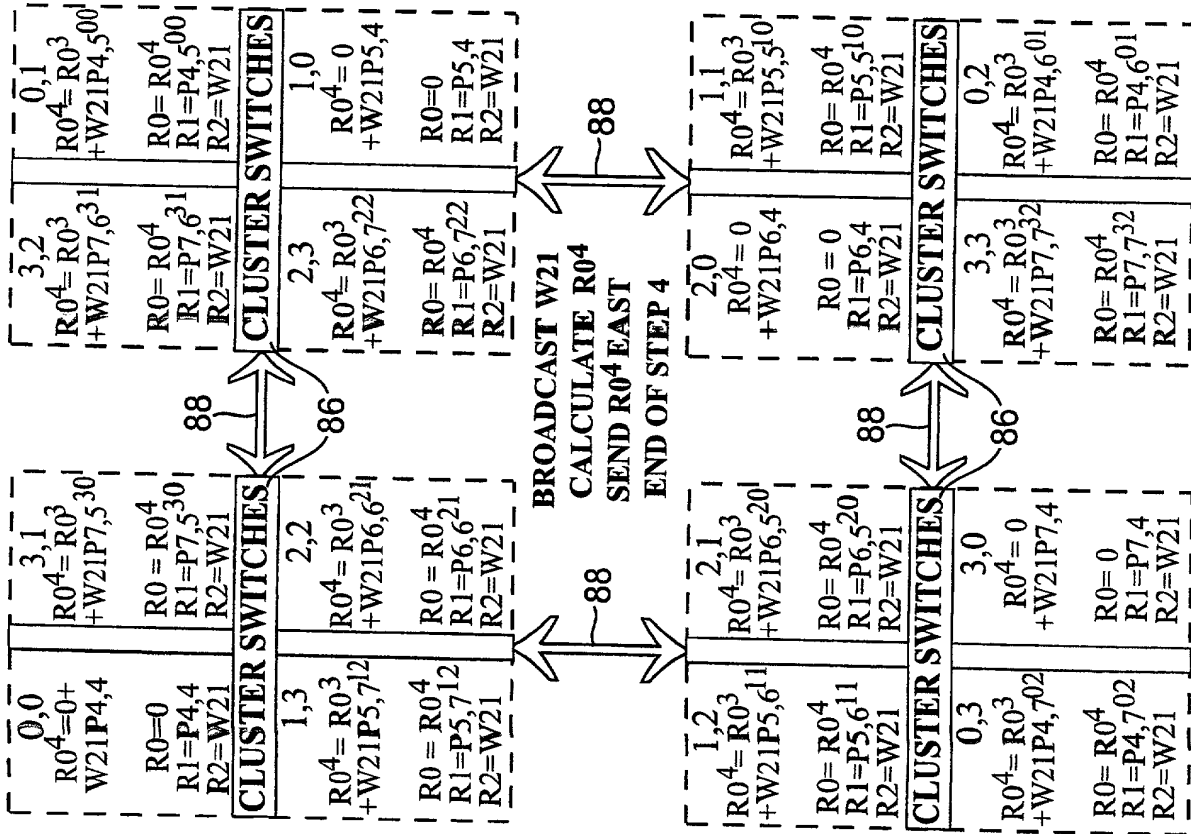


FIG. 22A

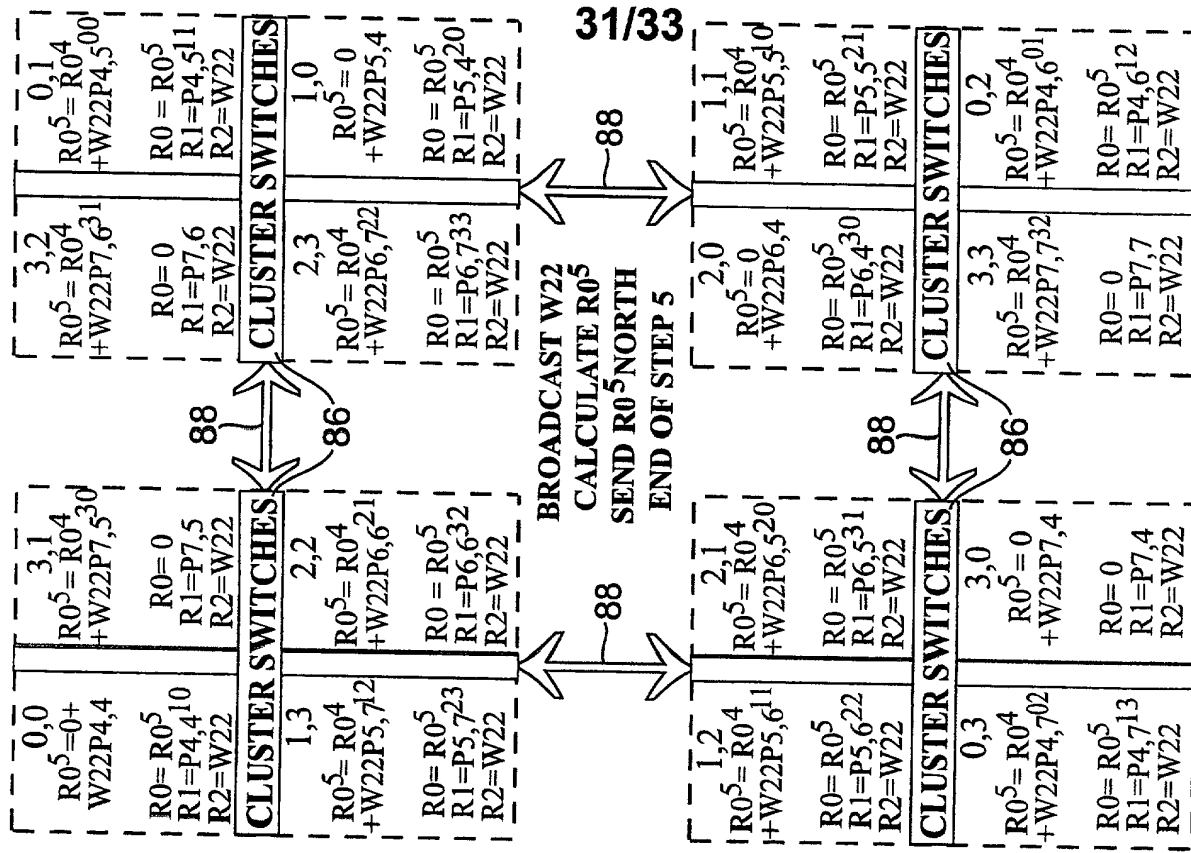
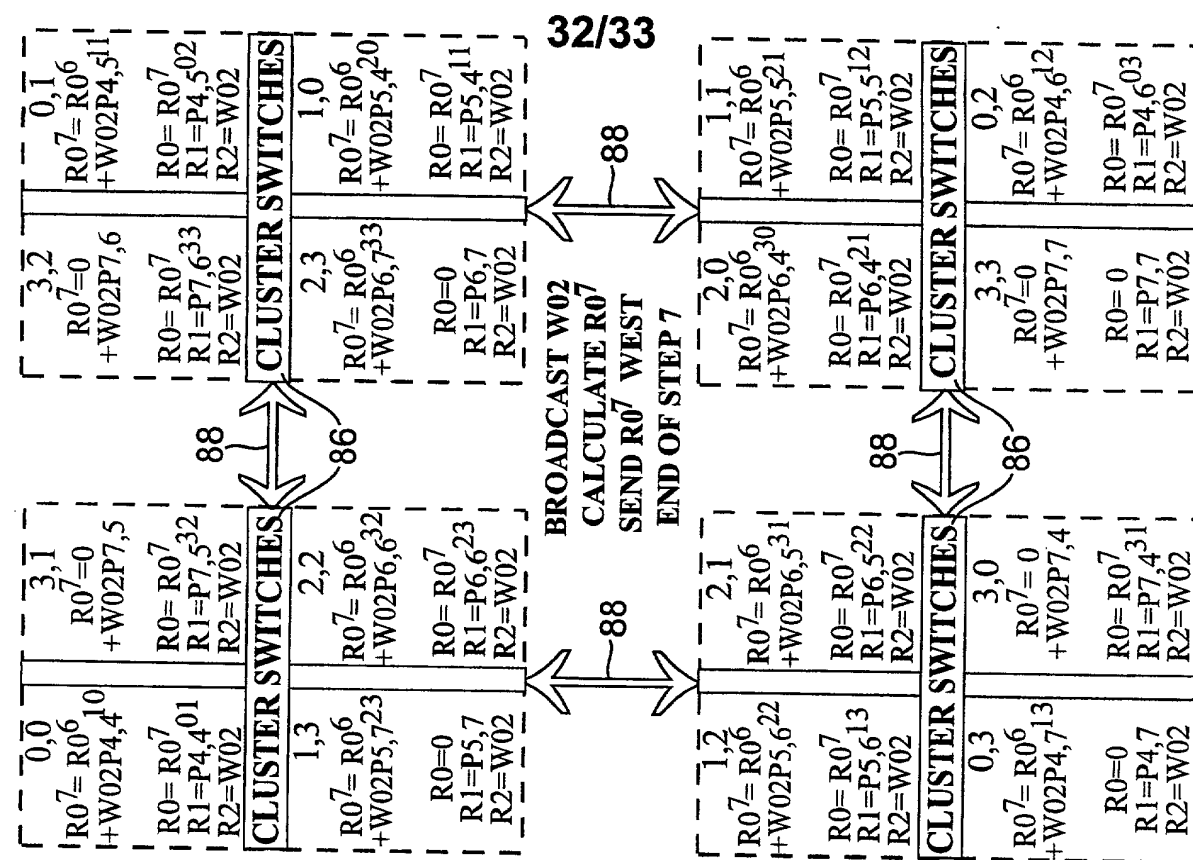
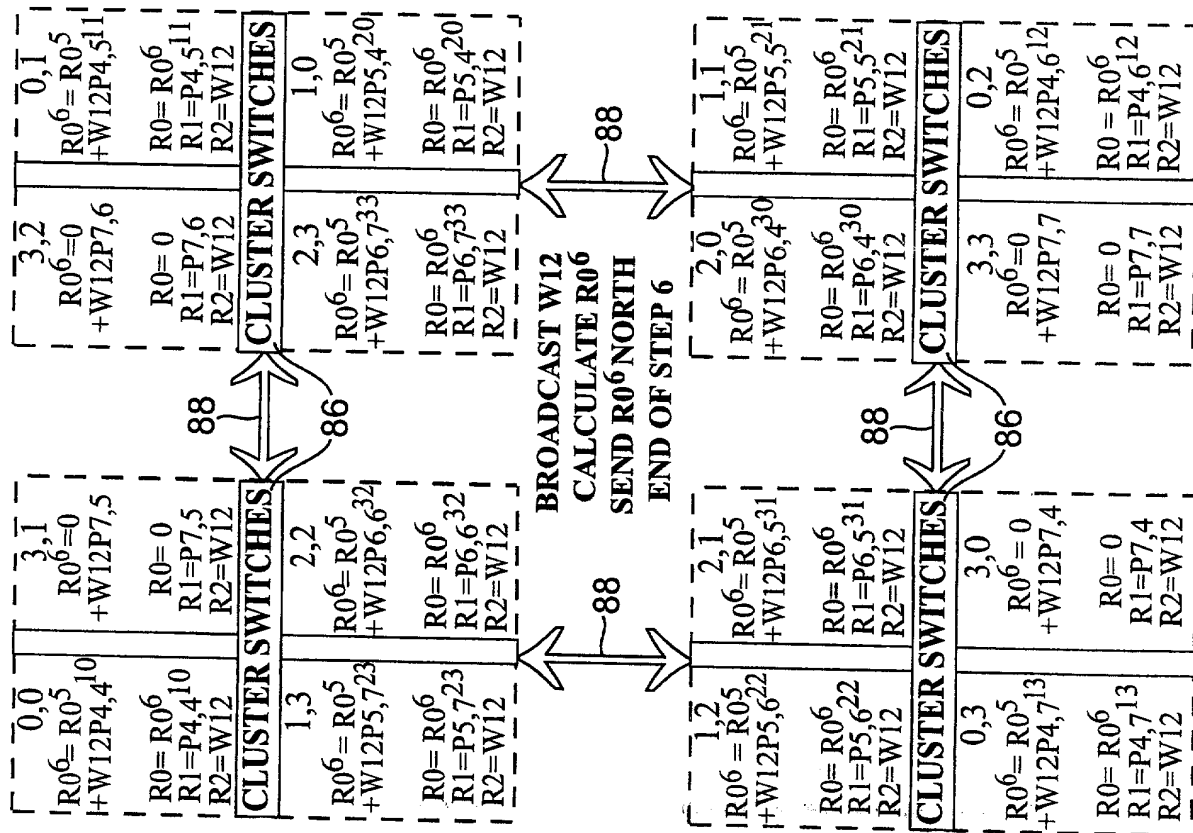


FIG. 22B



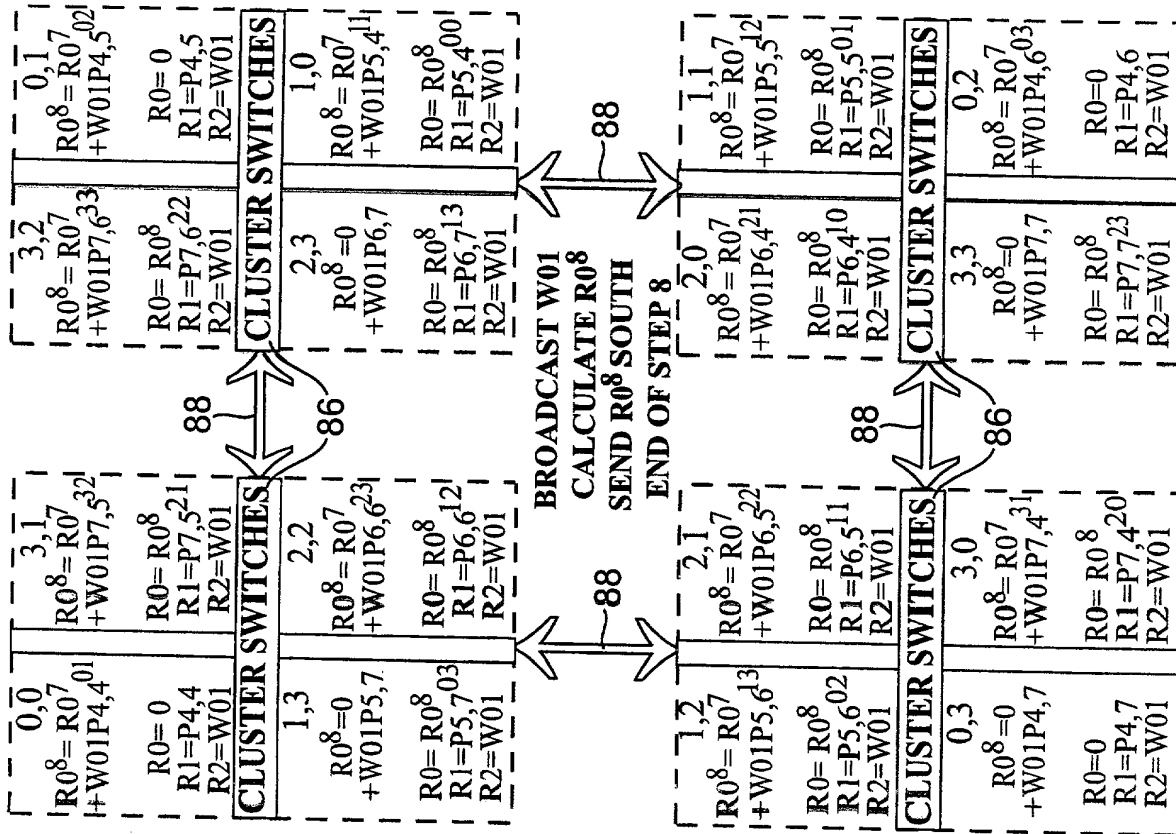


FIG. 24A

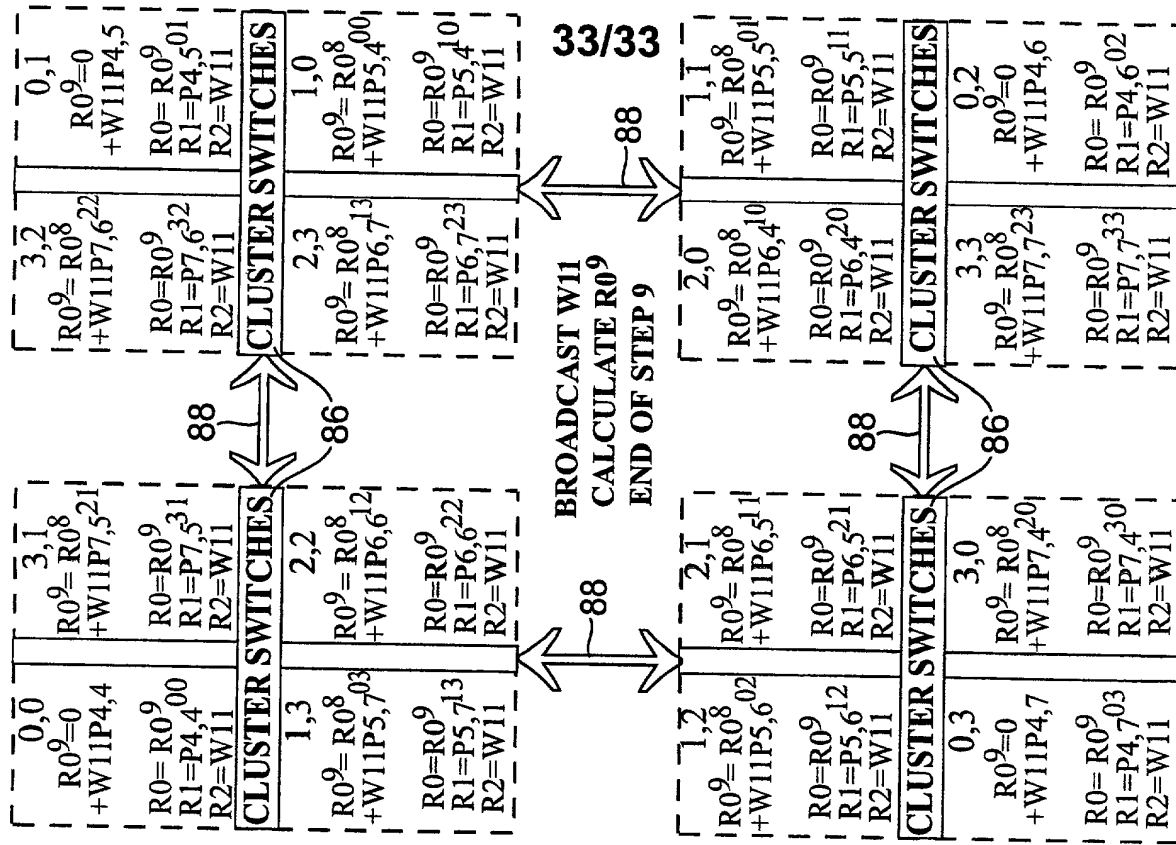


FIG. 24B